

Radio

# AMATEUR

Call Book Magazine

**\$3.00**

Foreign  
**\$3.25**



**FALL 1952**



*Why Take a Chance?*

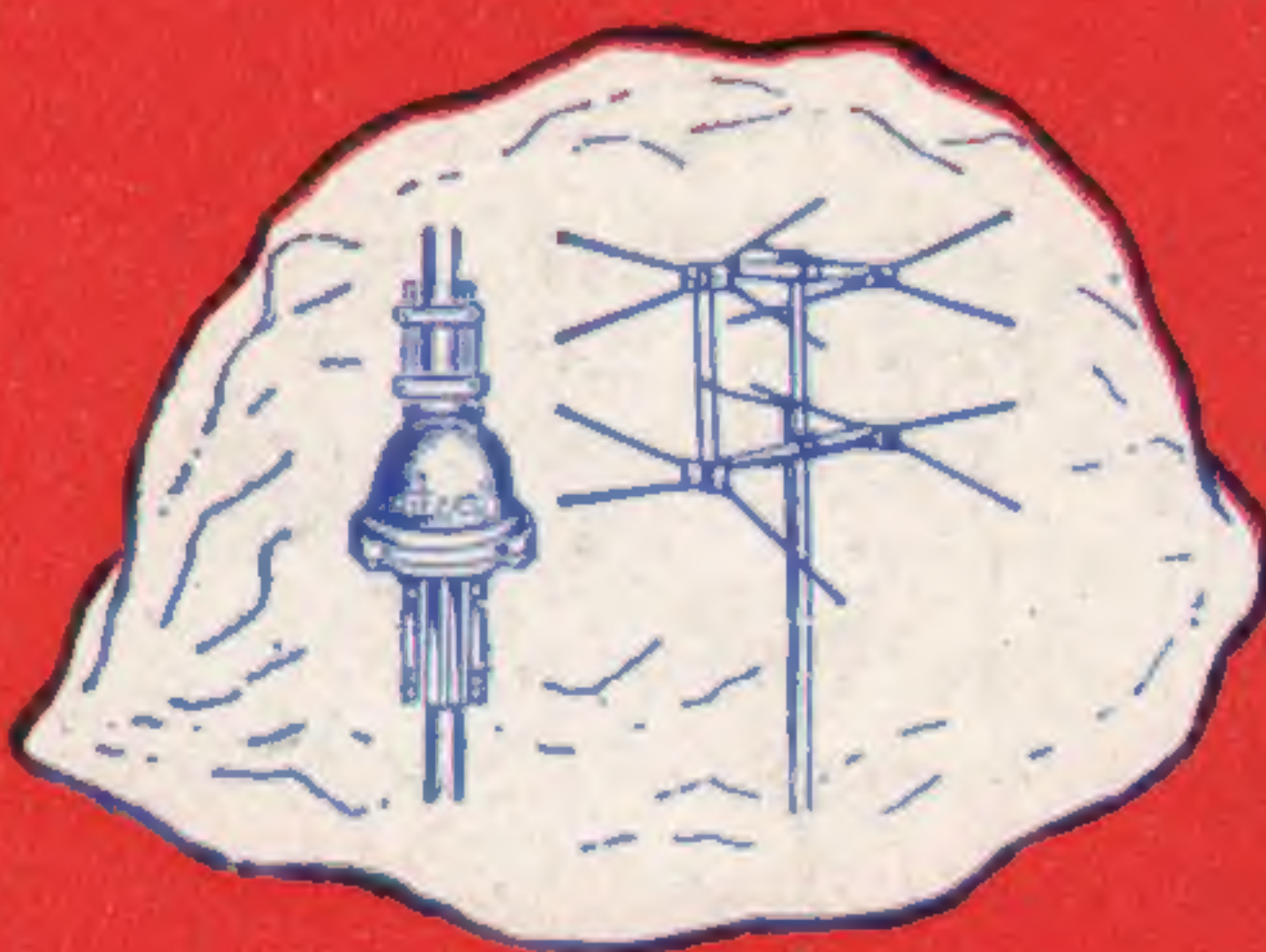
**You  
know  
what's under  
these  
shells...** *consistently dependable*



Type TJ Dykanol Transmitter Capacitors. In all popular capacities from 600 V.D.C. to 6,000 V.D.C.



Type Mity Mike TV Ceramic Capacitors. Hi-insulation resistance, low P.F. For 10,000 and 20,000 V.D.C.



Type TR Rotators. Will handle 7/8" to 2" O.D. upper and lower masts. Heavy duty motor.



Types 9 and 4 Moulded Transmitter Capacitors. For grid, plate blocking and r.f. bypass.



Quietone Vibrators. They're quieter, longer lasting. Complete range.



Type 50 series Mica XMTR Capacitors in glazed, low-loss ceramic case. Industry standard for over 42 years.

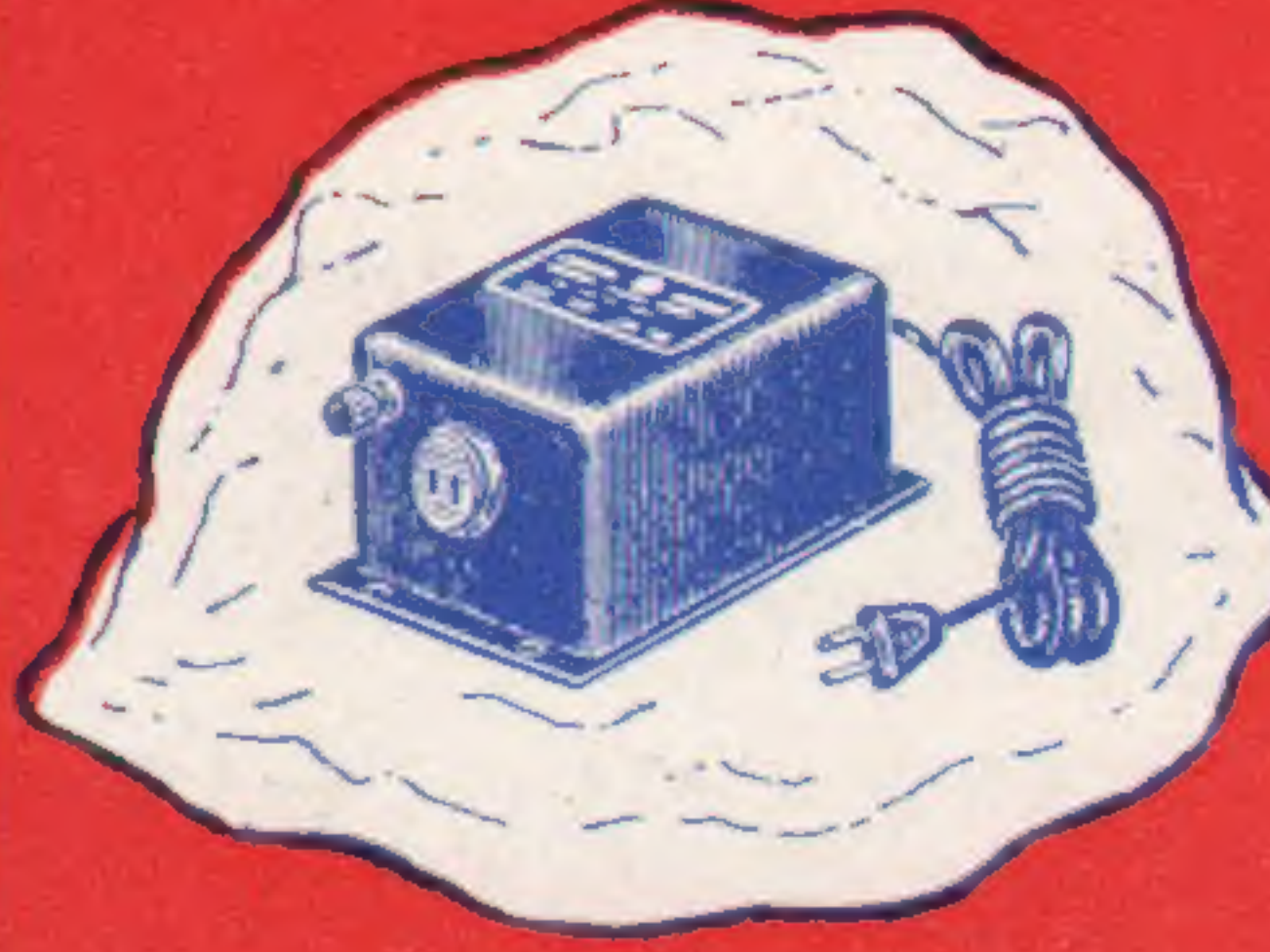
## ***Cornell-Dubilier & Faradon Products***



Powercon Converters. For DC to AC; AC to DC and DC to DC conversion. Dependable and efficient.



Types 13B and 177 Faradon XMTR Capacitors. For grid coupling and plate blocking applications.



Quietone Feed-Thru and Noise Filters. Where high insertion loss over wide frequencies is required.



**Faradon**

Catalog No. 200d available on request

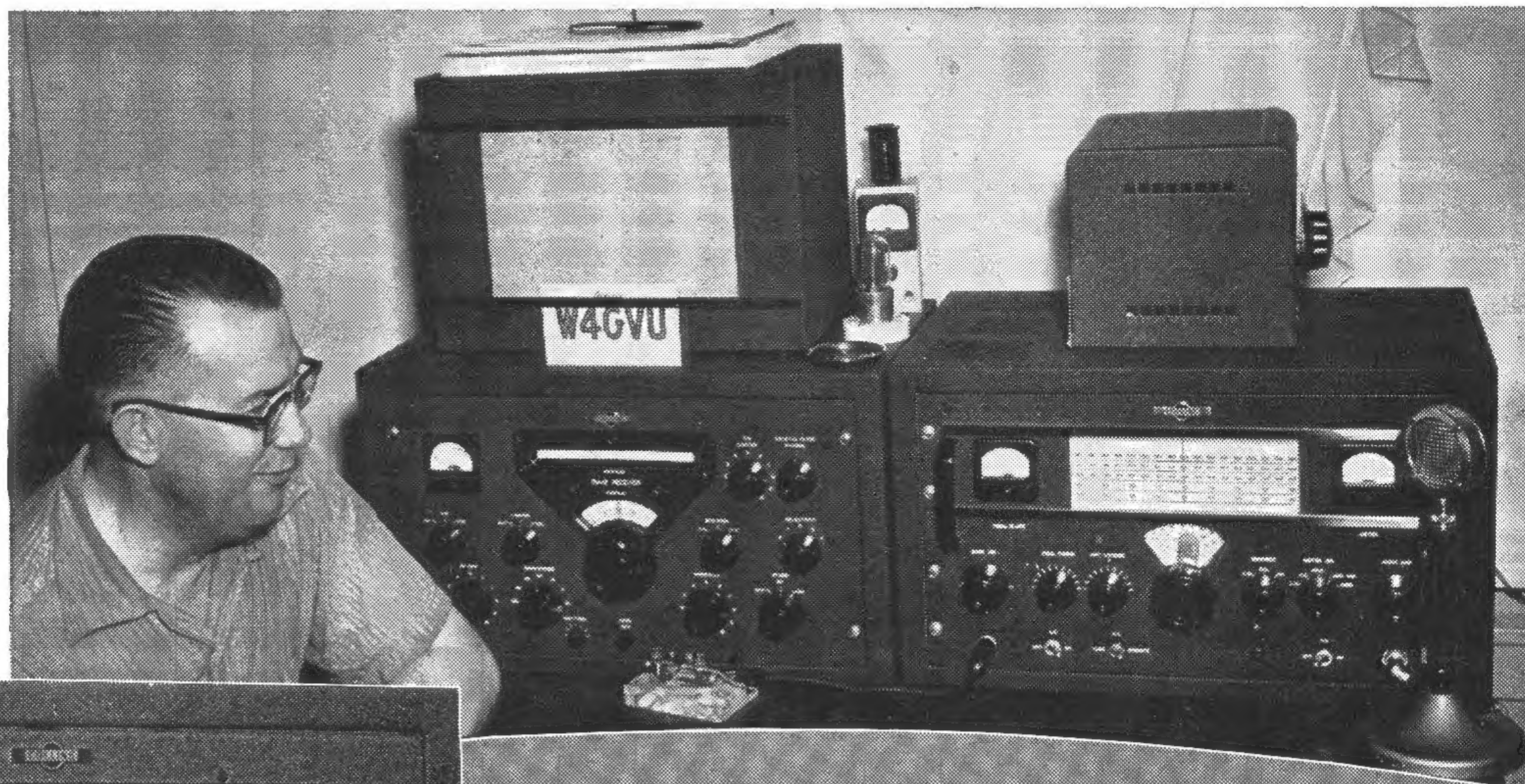
**CORNELL-DUBILIER ELECTRIC CORPORATION**

Dept. JH92, South Plainfield, N. J.

Plants in South Plainfield, N. J.; New Bedford, Worcester and Cambridge, Mass.; Providence, R. I.; Indianapolis, Ind.; Fuquay Springs, N. C.; and subsidiary, the Radiant Corp., Cleveland, O.



Lt. Col. Fred J. Elser  
in his ham shack



## FAN MAIL FOR A STAR PERFORMER COLLINS 32V-3

LT. COL. FRED J. ELSER

820 John's Road, Augusta, Georgia, 21 June, 1952

Mr. R. Bellew  
Collins Radio Co.  
Cedar Rapids, Ia.

Dear Dick:

I received my 32V-3 on 4 April, 1952 and connected it through my 35C-2 filter with RG8/U coax to the Harrison Antenna coupler bought for use with my old 32V-1 in Turkey. This gives me good loading to my 100' Inverted "L" Marconi Antenna, 30' high, on all bands 10 through 80 meters. Grounding is accomplished by means of 3/8" copper braid to the house copper water pipe system. On Sunday, 6 April, with the assistance of W4EZU, W4HRR, and W4-RVE, all also members of the Augusta Radio Club's TVI Committee, tests were performed on my neighbor's TV installation, which is a 4-stack bi-conical rotary beam, 50' from my antenna, feeding thence into the Dumont T.V. Receiver. On no band, including 10 X phone, could my signals be detected while

tuning for WSB-TV on Channel 2, or for WBT-TV on Channel 3. Each of these stations is located approximately 150 airline miles from here, in Atlanta and Charlotte, respectively. A Drake 300 ohm "Hi-pass" filter was placed in the TV antenna leadin, but was really not necessary. I might mention that while testing on Channel 2, with full gain on the TV receiver and preamp, the WSB-TV signal was so weak that the set would not "lock" on it. A strong TV signal in this locality will only run about 50 UV.

As you know, I had complete success with your 32V-1/75A-1 combination in Turkey, and on being ordered to this location knew my 2 Kilowatt rigs (homemade) would never be satisfactory under prevailing TV conditions here. Your 32V-3 (with 35C-2 filter) and 75A2 allow me to continue my 35 years as an active ham.

Thankfully,

/s/ FRED

For excellence in amateur communications, it's . . .



**COLLINS RADIO COMPANY, Cedar Rapids, Iowa**

11 W. 42nd St., NEW YORK 18

1930 Carpenter Blvd., DALLAS 2

2700 W. Olive Ave., BURBANK



# RADIO AMATEUR CALL BOOK

## MAGAZINE

It will be noted that we are again accepting bold face listings in the CALL-BOOK.

You can have your QTH in bold face type for a full year for five dollars. We allow three lines at this price and charge \$1.00 for each additional line.

No commercial affiliation or trade reference will be accepted and your copy must be confined to your call letters, name, address or any nick name and slogan that you wish to run.

All reservations for the Winter 1952 edition must be mailed to Radio Amateur Call Book Inc., 608 South Dearborn St., Chicago 5, Illinois, U.S.A., on or before November first 1952, accompanied by your remittance for the number of years that you desire to have your QTH in bold face type.

W9TRD.

VOLUME 30

NUMBER 3

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**RADIO AMATEUR CALL BOOK**  
(Incorporated)

608 South Dearborn Street  
CHICAGO 5, ILLINOIS, U. S. A.  
PHONE WABASH 2-1903

Representatives

CLEVELAND, OHIO

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HERBERT J. OLSOW

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NEW YORK 17, N. Y.  
PHONE MURRAY HILL 6-4670

Editor

MRS. CHARLES O. STIMPSON

Founder and Publisher

CHARLES O. STIMPSON

W9TRD

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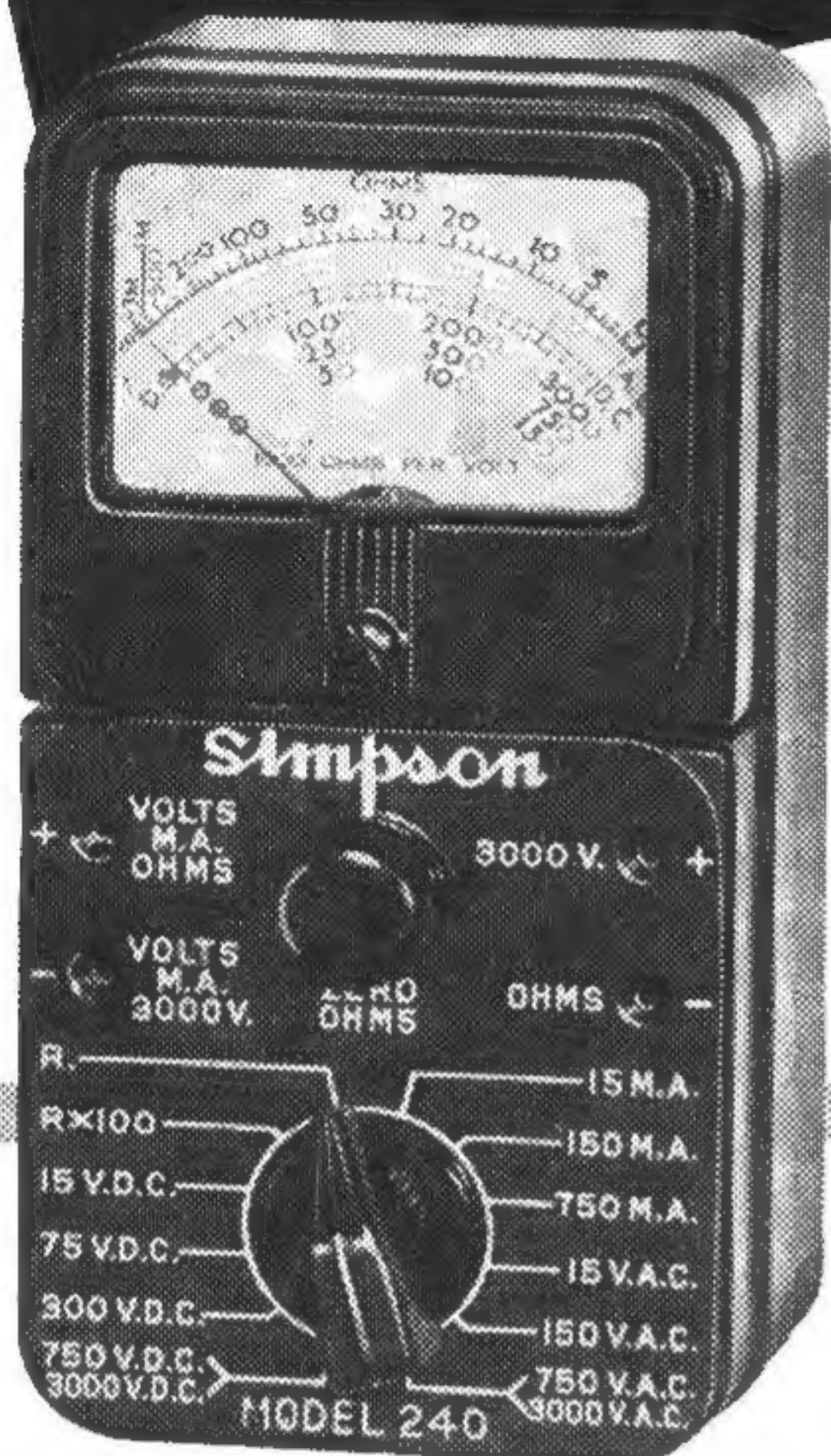
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*W. Ben Wimberly  
(W9IXD)*

well-known amateur says: "For quick, accurate trouble shooting around my ham shack, the Simpson Model 240 Hammeter is indispensable. I've used Simpson equipment for many years."



#### RANGES: Model 240

**AC VOLTS:** 0-15, 150, 750, 3000  
(1000 ohms per volt)

**DC VOLTS:** 0-15, 75, 300, 750, 3000  
(1000 ohms per volt)

**DC MILLIAMPERES:** 0-15, 150, 750

**OHMS:** 0-3000 (center scale 30)  
0-300,000 (center scale 3000)

**ACCURACY:** DC 3%—AC 5%

**SIZE:** 3"x5<sup>7</sup>/<sub>8</sub>"x2<sup>1</sup>/<sub>2</sub>"

**WEIGHT:** 1<sup>1</sup>/<sub>4</sub> lbs.

**SHIPPING WEIGHT:** 2<sup>1</sup>/<sub>2</sub> lbs.

**AMATEUR'S NET PRICE . . . \$24.60**

Leatherette Case . . . . . 5.00



## WORLD FAMOUS SIMPSON HAMMETER IS FIRST WITH RADIO AMATEURS

The famous 240 Hammeter—named by the radio "ham"—is world renowned for its ruggedness and accuracy. It was designed for the additional voltage and sensitivity required in radio testing.

A favorite with "hams" because of its maximum voltage range of 3000 AC or DC, the 240 was the first self-contained pocket portable built expressly to check high voltage and all component parts of transmitters and receivers.



A worthy companion of the Hammeter is the Model 230 volt-ohm-milliammeter, with a maximum voltage of 1000 AC or DC. Its ranges are adequate for most line voltages, for telephone, teletype, and general purpose testing.

#### RANGES: Model 230

**AC VOLTS:** 0-10, 250, 1000 (400 ohms per volt)

**DC VOLTS:** 0-10, 50, 250, 1000 (1000 ohms per volt)

**DC MILLIAMPERES:** 0-10, 50, 250

**OHMS:** 0-1000, 0-100,000

**ACCURACY:** DC 3%—AC 5%

**SIZE:** 3"x5<sup>7</sup>/<sub>8</sub>"x2<sup>1</sup>/<sub>2</sub>"

**WEIGHT:** 1<sup>1</sup>/<sub>4</sub> lbs.

**SHIPPING WEIGHT:** 3 lbs.

**AMATEUR'S NET PRICE . . . . . \$23.40**

Leatherette Case . . . . . 5.00

*Simpson*  
INSTRUMENTS THAT STAY ACCURATE

**SIMPSON ELECTRIC COMPANY**

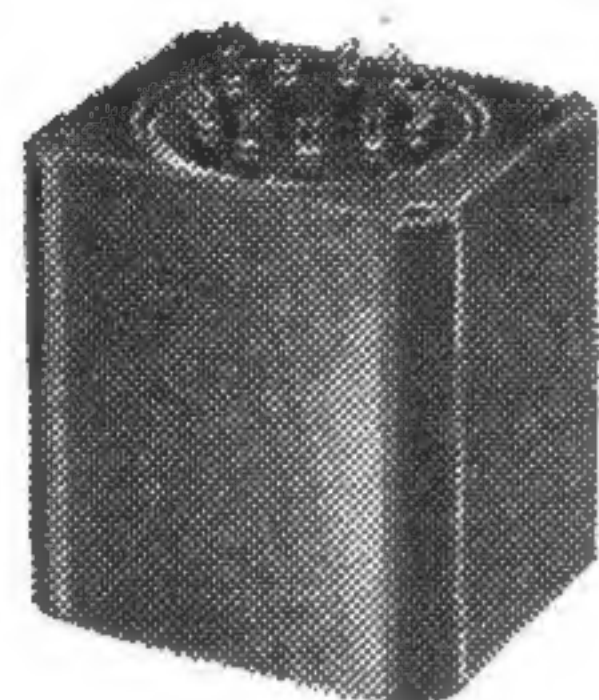
5200-18 WEST KINZIE STREET, CHICAGO 44, ILLINOIS

In Canada: Bach-Simpson Ltd., London, Ontario

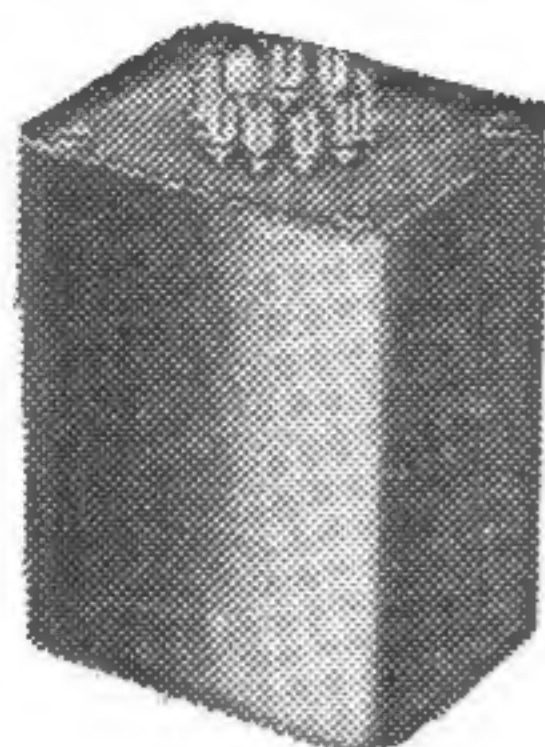




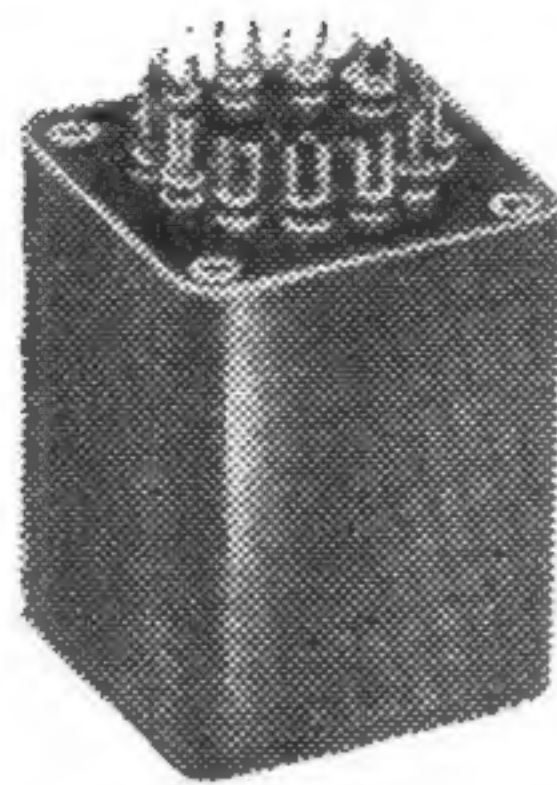
# COMPONENTS FOR EVERY APPLICATION



**LINEAR STANDARD**  
High Fidelity Ideal



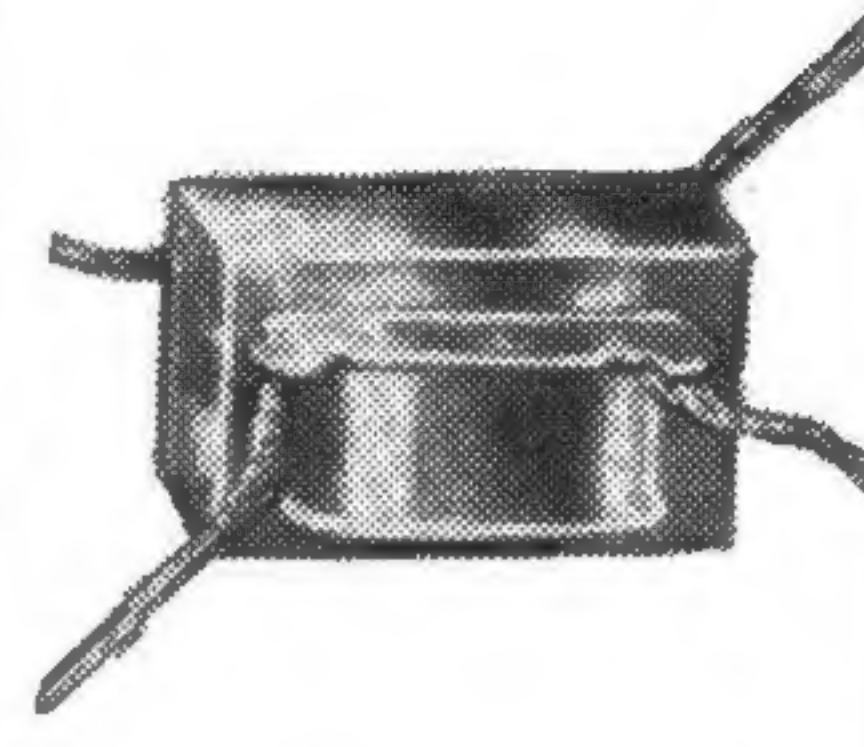
**HIPERM ALLOY**  
High Fidelity . . . Compact



**ULTRA COMPACT**  
Portable . . . High Fidelity



**OUNCER**  
Wide Range . . . 1 ounce



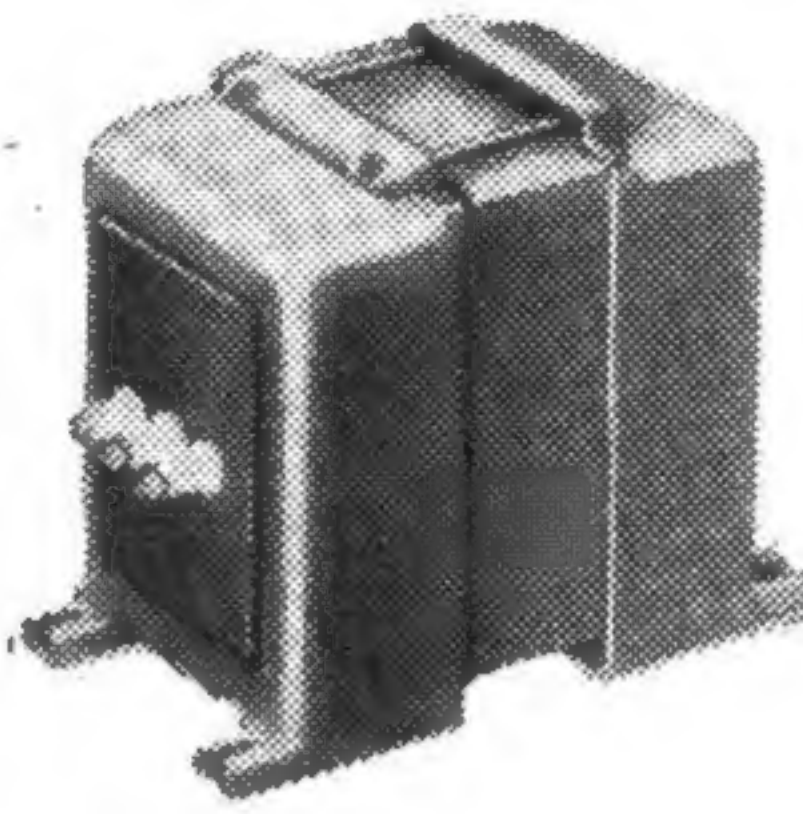
**SUB OUNCER**  
Weight 1/3 ounce



**COMMERCIAL GRADE**  
Industrial Dependability



**SPECIAL SERIES**  
Quality for the "Ham"



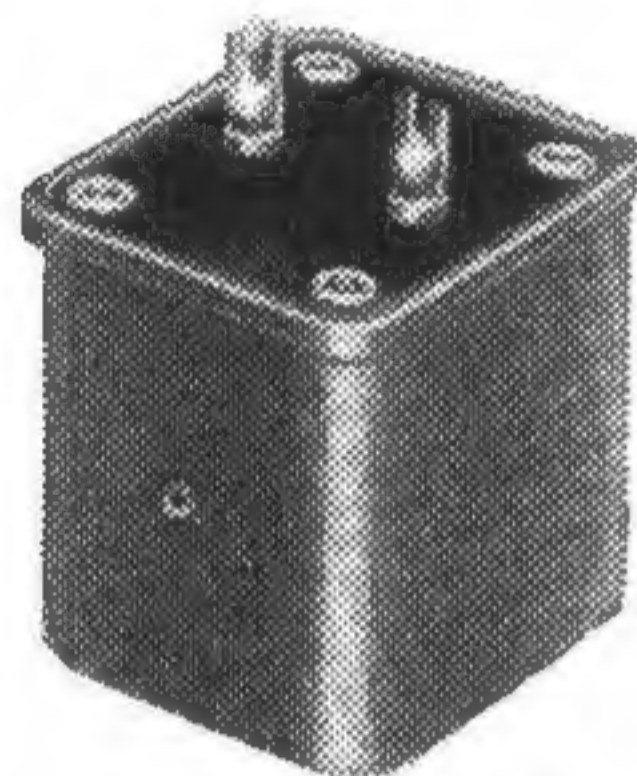
**POWER COMPONENTS**  
Rugged . . . Dependable



**VARITRAN**  
Voltage Adjustors



**MODULATION UNITS**  
One watt to 100KW



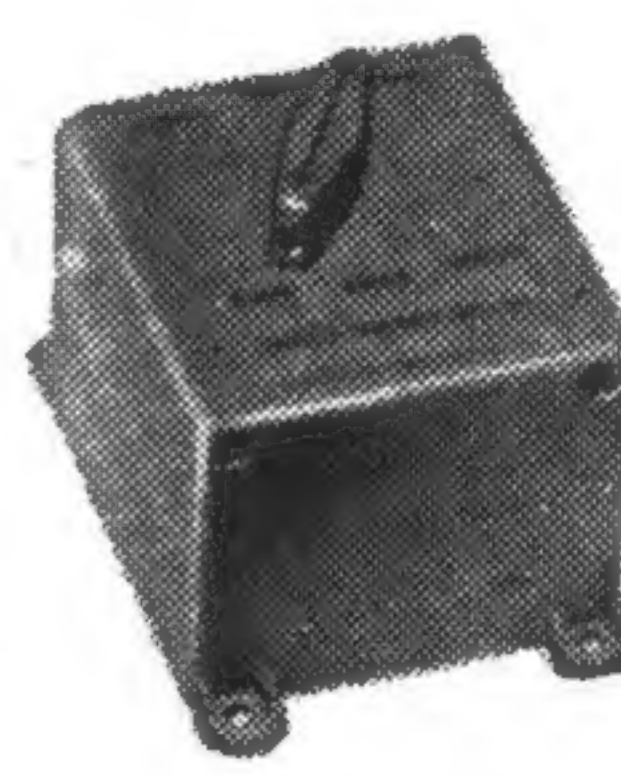
**VARIABLE INDUCTOR**  
Adjust like a Trimmer



**TOROID HIGH Q COILS**  
Accuracy . . . Stability



**TOROID FILTERS**  
Any type to 300KC



**MU-CORE FILTERS**  
Any type 1/2 - 10,000 cyc.



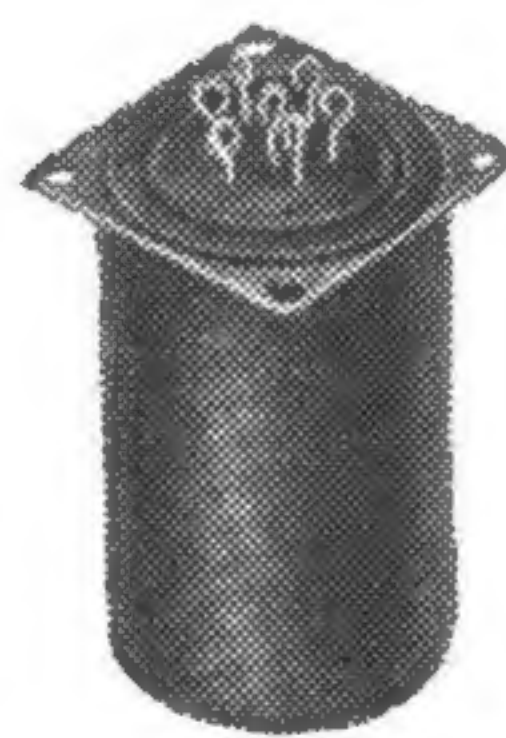
**EQUALIZERS**  
Broadcast & Sound



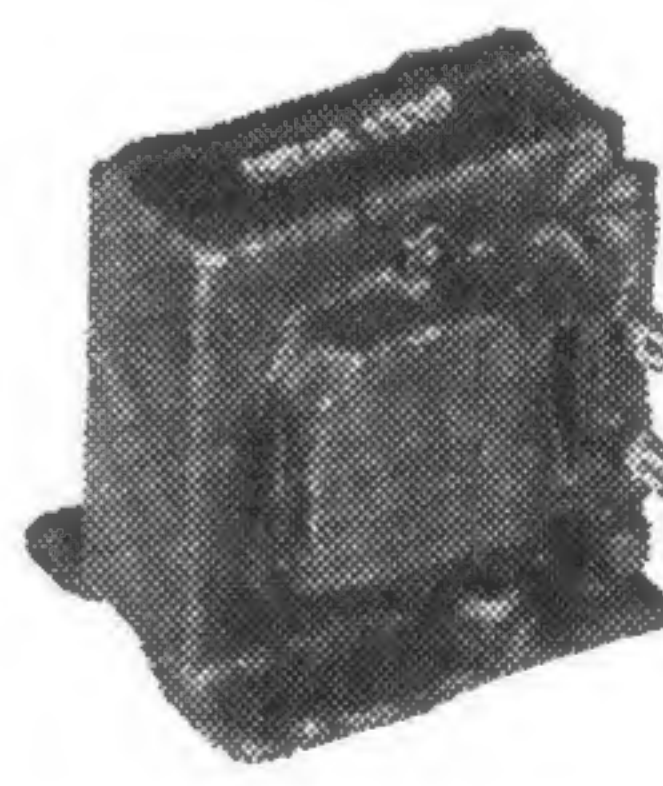
**PULSE TRANSFORMERS**  
For all Services



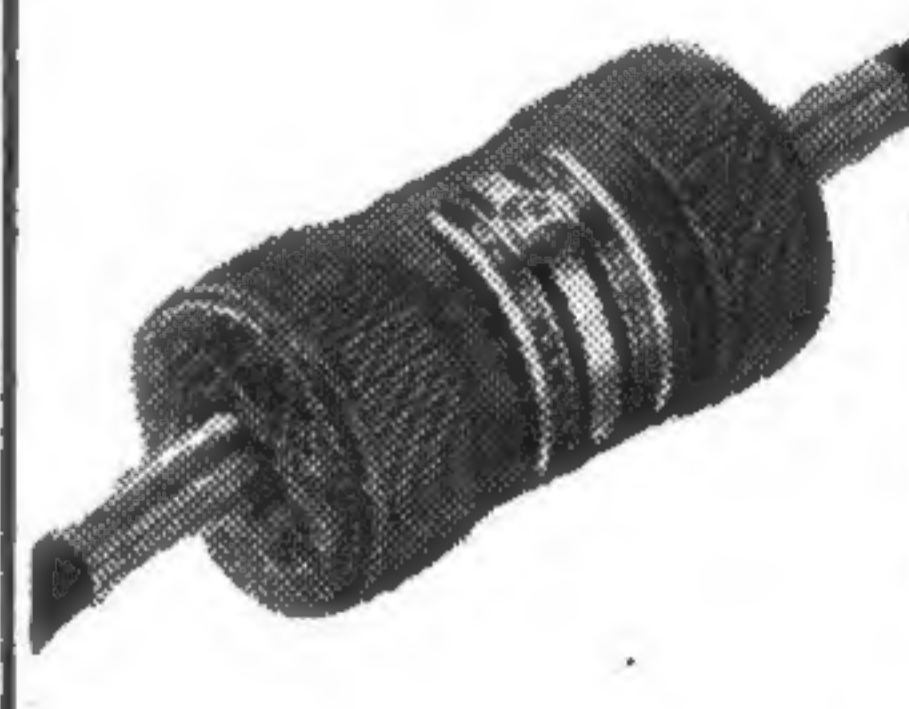
**HERMETIC COMPONENTS**  
Ceramic Terminals



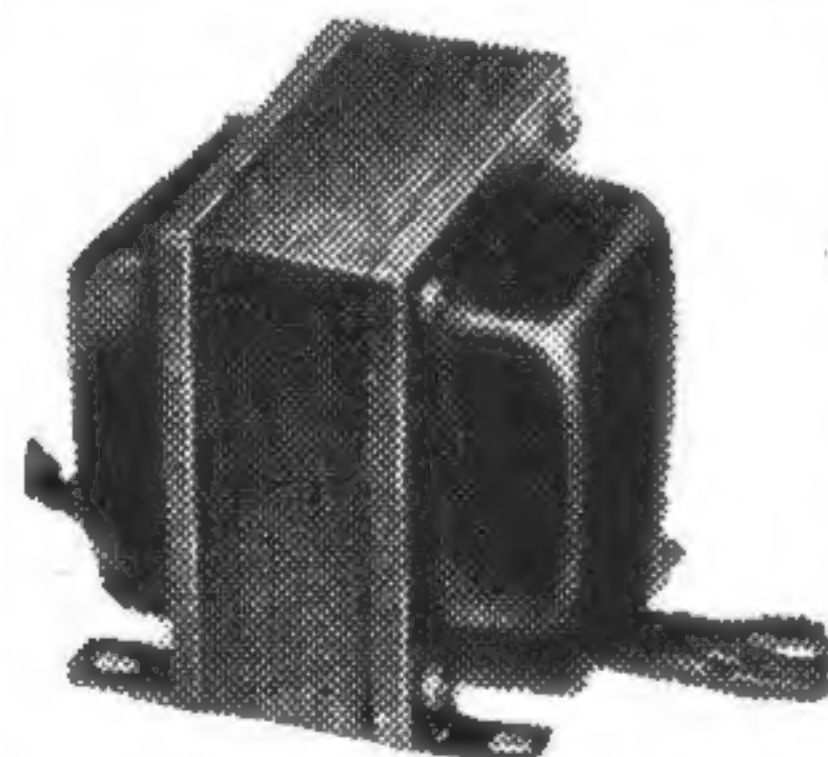
**HERMETIC COMPONENTS**  
Glass Terminals



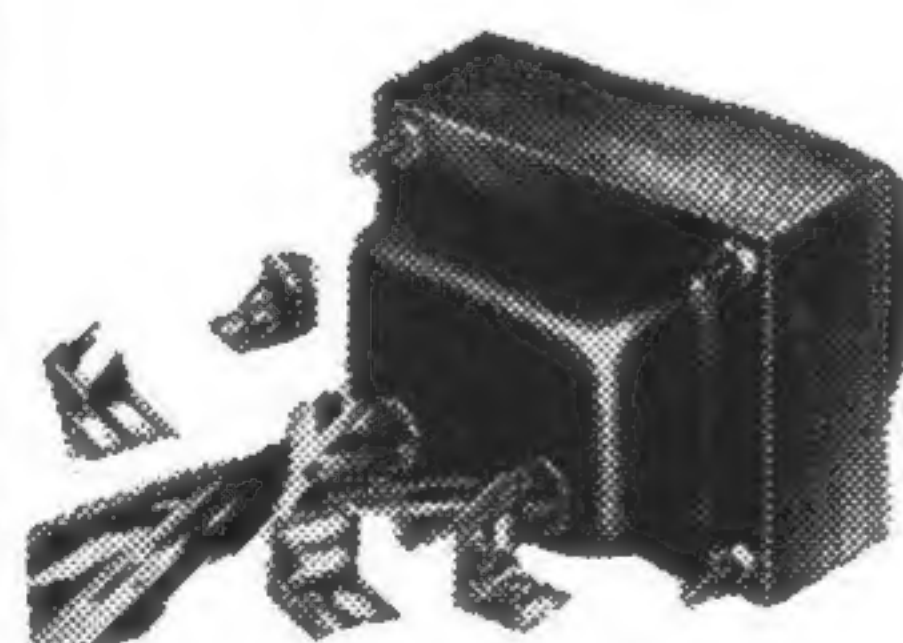
**GRADE 3 JAN**  
Components



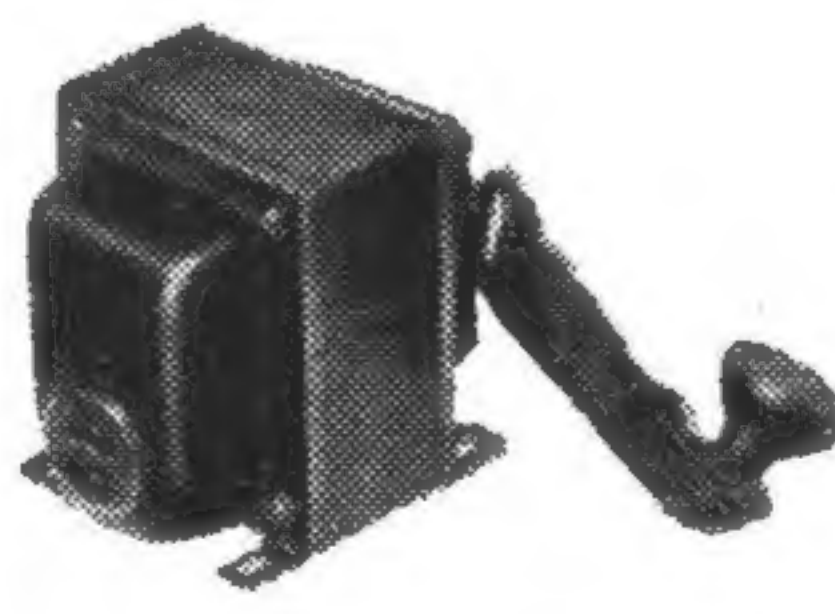
**CABLE TYPE**  
For mike cable line



**VERTICAL SHELLS**  
Husky . . . Inexpensive



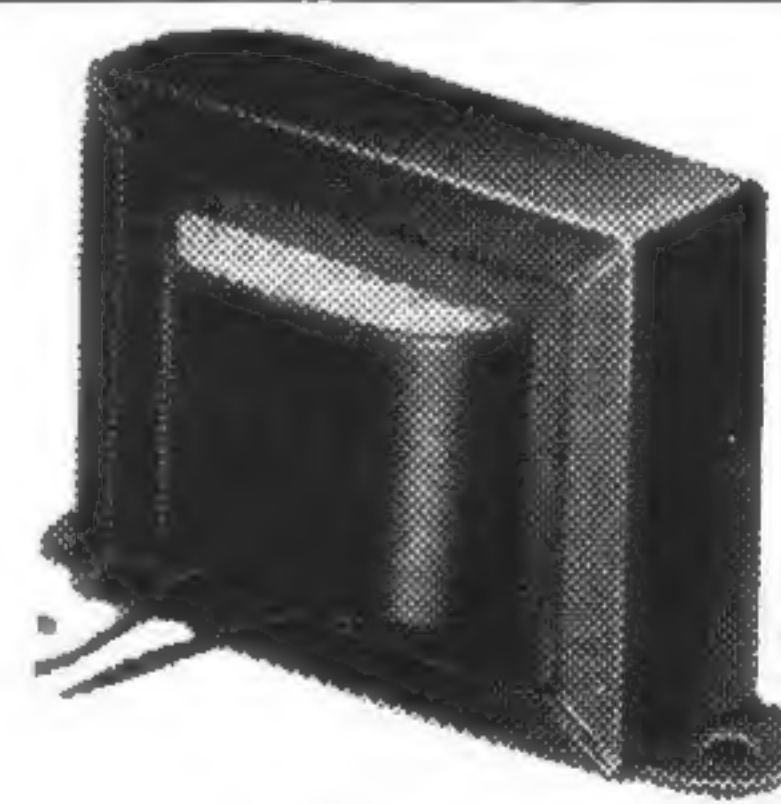
**REPLACEMENT**  
Universal Mounting



**STEP-DOWN**  
Up to 2500W . . . Stock



**LINE ADJUSTORS**  
Match any line voltage



**CHANNEL FRAME**  
Simple . . . Low cost

*United Transformer Co.*

150 VARICK STREET

NEW YORK 13, N. Y.

EXPORT DIVISION: 13 EAST 40th STREET, NEW YORK 16, N. Y., CABLES: "ARLAB"





POLYETHYLENE DIELECTRIC RG TYPE COAXIAL CABLES

Here are the answers to your questions about coaxial cable,—from Amphenol's engineering radio amateurs. Use this chart for your own design work and to answer the questions of fellow hams. And, for continuity, minimum loss and assurance of lasting performance—specify Amphenol Cable!

STANDARD JACKET		FLOW TEMP. BLACK JACKET		IMPEDANCE IN OHMS	O. D. OF ARMOR	JACKET DIAM-ETER	VINYL JACKET	SHIELDS 1st 2nd		O. D. OF DIELECTRIC	INNER CONDUCTOR	V. P. PER CENT	CAP. MMFD /FT.	MAX. OPER. VOLTS-RMS
MILITARY NUMBER RG-/U	AMPHENOL NUMBER	SIGNAL CORPS NUMBER RG-/U	AMPHENOL NUMBER											
5	21-001			52.5		.332	Black	C C		.185	16	65.9	28.5	3000
5A	21-271	5B	21-294	50		.328	Grey	S S		.181	16S	65.9	29	3000
6	21-002	6A	21-330	76		.332	Grey	S C		.185	21CW	65.9	20	2700
7	21-003			97		.370	Black	C —		.250*	19	84	12.5	1000
8	21-004	8A	21-290	52		.405	Black	C —		.285	7/21	65.9	29.5	4000
9	21-005			51		.420	Grey	S C		.280	7/21S	65.9	30	4000
9A	21-231	9B	21-332	51		.420	Grey	S S		.280	7/21S	65.9	30	4000
10	21-006	10A	21-338	52	.475	.405	Grey	C —		.285	7/21	65.9	29.5	4000
11	21-007	11A	21-296	75		.405	Black	C —		.285	7/26T	65.9	20.5	4000
12	21-008	12A	21-340	75	.475	.405	Grey	C —		.285	7/26T	65.9	20.5	4000
13	21-009	13A	21-334	74		.420	Black	C C		.280	7/26T	65.9	20.5	4000
14	21-010	14A	21-336	52		.545	Grey	C C		.370	10	65.9	29.5	5500
15	21-011			76		.545	Black	C C		.370	15CW	65.9	20	5000
17	21-013	17A	21-298	52		.870	Grey	C —		.680	.188	65.9	29.5	11000
18	21-014	18A	21-300	52	.945	.870	Grey	C —		.680	.188	65.9	29.5	11000
19	21-015	19A	21-303	52		1.120	Grey	C —		.910	.250	65.9	29.5	14000
20	21-016	20A	21-305	52	1.195	1.120	Grey	C —		.910	.250	65.9	29.5	14000
21	21-017	21A	21-308	53		.332	Grey	S S		.185	16N	65.9	29	2700
22	21-038			95		.405	Black	T —		.285	Two 7/.0152	65.9	16	1000
22A	21-148	22B	21-310	95		.420	Grey	T T		.285	Two 7/.0152	65.9	16	1000
29	21-018			53.5		.184	Poly	T —		.116	20	65.9	28.5	1900
34	21-019	34A	21-429	71		.625	Black	C —		.455	7/21	65.9	21.5	5200
35	21-020	35A	21-311	71	.945	.870	Grey	C —		.680	9	65.9	21.5	10000
42	21-021			78		.342	Grey	S S		.196	21N	65.9	20	2700
54A	21-022			58		.250	Poly	T —		.178	7/.0152	65.9	26.5	3000
55	21-023			53.5		.206	Poly	T T		.116	20	65.9	28.5	1900
57	21-039	57A	21-313	95		.625	Black	T —		.472	Two 7/21	65.9	17	3000
58	21-024			53.5		.195	Black	T —		.116	20	65.9	28.5	1900
58A	21-199	58C	21-316	50		.195	Black	T —		.116	19/.0068	65.9	29	1900
59	21-025	59A	21-291	73		.242	Black	C —		.146	22CW	65.9	21	2300
62	21-026	62A	21-318	93		.242	Black	C —		.146*	22CW	84	13.5	750
63	21-027	63B	21-320	125		.405	Black	C —		.285*	22CW	84	10	1000
71	21-029			93		.250	Poly	T T		.146*	22CW	84	13.5	750
74	21-041	74A	21-321	52	.615	.545	Grey	C C		.370	10	65.9	29.5	5500
79	21-070	79B	21-325	125	.475	.405	Black	C —		.285*	22CW	84	10	1000
83	21-180			35		.405	Black	C —		.240	10	65.9	44	2000
89	21-253			125		.632	Black	C —		.285*	22CW	84	10	1000
108	21-261	108A	21-327	76		.235	Black	T —		.073Ea.	Two 7/28		23	1000
111	21-255	111A	21-329	95	.490	.420	Grey	T T		.285	Two 7/.0152	65.9	16	1000
	21-125			71		.870	Grey	C —		.680	9	65.9	21.5	10000
114	21-440			185		.405	Black	C —		.285*	33CW	86	6.5	1000
122	21-441			50		.160	Black	T —		.096	27/36T	65.9	29.3	1900
		125	21-442	150		.600		C —		.460*	26CW	84	7.8	1000
130	21-436			95		.625	Black	T —		.472	Two 7/21	65.9	17	3000
131	21-437			95	.710	.625	Black	T —		.472	Two 7/21	65.9	17	3000

\*Semi-solid dielectric C—Copper CW—Copperweld S—Silvered copper T—Tinned copper N—Nichrome  
OHMS 35 OHMS OHMS 50 to 58 OHMS OHMS 71 to 78 OHMS OHMS 90 to 185 OHMS

AMERICAN PHENOLIC CORPORATION • 1830 South 54th Avenue • Chicago 50, Illinois



# INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in locating the country when DX calls are heard.

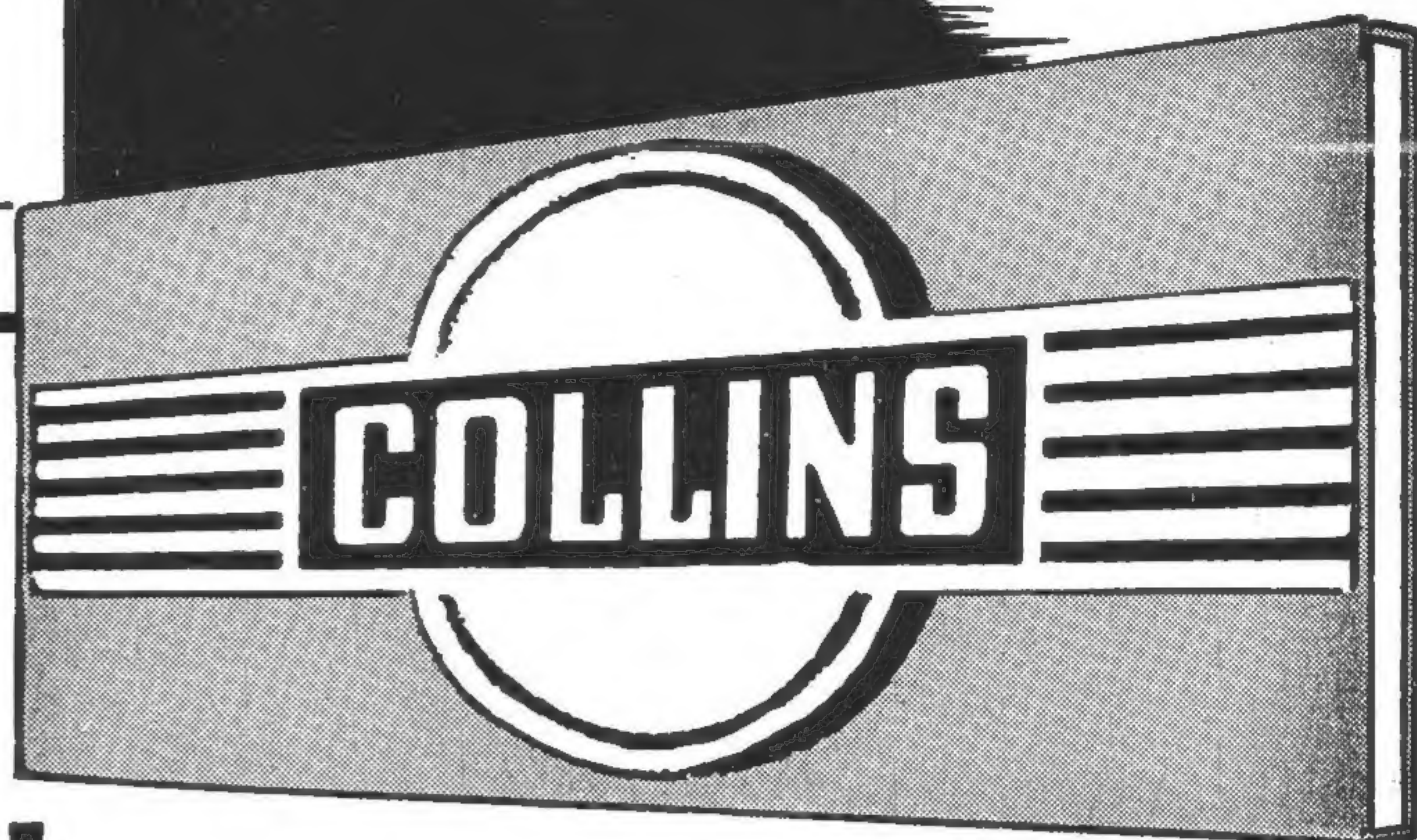
AC3	SIKKIM	KG6	MARIANA ISLANDS (Guam)	VK	AUSTRALIA
AC4	TIBET	KG6I	IWO JIMA ISLAND	VK7	TASMANIA
AG2	TRIESTE (American)	KG6S	SAIPAN ISLAND	VK9	PAPUA TERRITORY
AP	PAKISTAN	KG6T	TINIAN ISLAND	VO	NEWFOUNDLAND & LABRADOR
C	CHINA	KH6	HAWAIIAN ISLANDS	VP1	BRITISH HONDURAS
CE	CHILE	KJ6	JOHNSTON SLAND	VP2	LEEWARD & WINDWARD ISLANDS
CM-CO	CUBA	KL7	ALASKA	VP3	BRITISH GUIANA
CN2	TANGIER ZONE	KM6	MIDWAY ISLAND	VP4	TRINIDAD & TOBAGO IS.
CN8	FRENCH MOROCCO	KP4	PUERTO RICO	VP5	JAMAICA, CAYMAN, TURKS & CAICOS IS.
CP	BOLIVIA	KP6	PALMYRA & JARVIS ISLANDS	VP6	BARBADOS
CR4	CAPE VERDE ISLANDS	KR6	OKINAWA	VP7	BAHAMA ISLANDS
CR5	PORTUGUESE GUINEA	KS4	SWAN ISLAND	VP8	FALKLAND ISLANDS South Georgia, South Orkney and South Shetland Islands.
CR6	ANGOLA	KS6	U. S. SAMOA	VP9	BERMUDA ISLANDS
CR7	MOZAMBIQUE	KV4	VIRGIN ISLANDS	VQ1	ZANZIBAR
CR8	GOA (Portuguese India)	KW6	WAKE ISLAND	VQ2	NORTHERN RHODESIA
CR9	MACAU	KX6	MARSHALL ISLANDS	VQ3	TANGANYIKA TERRITORY
CR10	TIMOR ISLAND (Port.)	KZ5	CANAL ZONE	VQ4	KENYA
CT1	PORTUGAL	LA	NORWAY	VQ5	UGANDA
CT2	AZORES ISLANDS	LU	ARGENTINA	VQ6	BRITISH SOMALILAND
CT3	MADERIA ISLANDS	LX	LUXEMBOURG	VQ8	CHAGOS & MAURITIUS ISLANDS
CX	URUGUAY	LZ	BULGARIA	VQ9	SEYCHELLES
DL	GERMANY	MB9	AUSTRIA	VR1	GILBERT ELLICE & OCEAN ISLANDS
DU	PHILIPPINE ISLANDS	MD4	SOMALIA	VR2	FIJI ISLANDS
EA	SPAIN	MD5	SUEZ CANAL ZONE	VR3	FANNNG ISLAND
EA6	BALEARIC ISLANDS	MD6	IRAQ	VR4	SOLOMON ISLANDS
EA8	CANARY ISLANDS	MF2	TRIESTE ((British))	VR5	TONGA (Friendly) ISLAND
EA9	SPANISH MOROCCO	MI3	ERITREA	VR6	PITCAIRN ISLAND
EI	IRELAND	MP4	BAHREIN IS. & OMAN	VS1	SINGAPORE
EL	LIBERIA	OA	PERU	VS2	MALAYAN UNION
EQ	IRAN (ex Persia)	OH	FINLAND	VS4	BRITISH NORTH BORNEO
ET	ETHIOPIA	OE	AUSTRIA	VS5	BRUNEI & SARAWAK
F	FRANCE	OD5	LEBANON	VS6	HONG KONG
FA	ALGERIA	OK	CZECHOSLOVAKIA	VS7	CEYLON
FB8	MADAGASCAR	ON	BELGIUM	VS9	ADEN & SOCOTRA ISLANDS
FC	CORSICA	OQ5	BELGIAN CONGO	VU	INDIA
FD8	FRENCH TOGOLAND	OX	GREENLAND	VU4	LACCADIVE ISLANDS
FE8	FRENCH CAMEROONS	OY	FAEROES ISLANDS	VU5	ANDAMAN ISLANDS
FF8	FRENCH WEST AFRICA	OZ	DENMARK	W	UNITED STATES
FG8	GUADELOUPE	PA, PI	NETHERLANDS	XE	MEXICO
FI8	FRENCH INDO-CHINA	PJ	NETH. WEST INDIES	XZ	BURMA
FKS	FRENCH-AUSTRIA	PK1, 2, 3	JAVA	YA	AFGHANISTAN
FK8	NEW CALEDONIA	PK4	SUMATRA	YI	IRAQ
FL8	FRENCH SOMALILAND	PK5	BORNEO (Neth. Indies)	YJ	NEW HEBRIDES
FM8	MARTINIQUE	PK6	CELEBES & MOLUCCA ISLANDS	YK	SYRIA
FN	FRENCH INDIA	PK7	NETHERLAND NEW GUINEA	YN	NICARAGUA
FO8	TAHITI	PX	ANDORRA	YO	ROUMANIA
FP8	MIQUELON & ST. PIERRE IS.	PY	BRAZIL	YS	SALVADOR
FQ8	FRENCH EQUATORIAL AFRICA	PZ	SURINAM	YT, YU	YUGOSLAVIA
FR8	REUNION ISLAND	SM	SWEDEN	YV	VENEZUELA
FU8	NEW HEBRIDES	SP	POLAND	ZA	ALBANIA
FY7	FRENCH GUIANA	ST	SUDAN	ZB1	MALTA
G	ENGLAND	SU	EGYPT	ZB2	GIBALTAR
GC	CHANNEL ISLANDS	SV	CRETE & GREECE	ZC1	TRANSJORDAN
GD	ISLE OF MAN	SV5	DODECANESE ISLANDS	ZC2	COCOS ISLANDS
GI	NORTHERN IRELAND	TA	TURKEY	ZC3	CHRISTMAS ISLAND
GM	SCOTLAND	TF	ICELAND	ZC4	CYPRUS
GW	WALES	TG	GUATEMALA	ZD1	SIERRA LEONE
HA	HUNGARY	TI	COSTA RICA	ZD2	NIGERIA
HB	SWITZERLAND	TT	TANNU TUVA	ZD3	GAMBIA
HC	ECUADOR	UA1-3-4-6	EUROPEAN RUSSIAN SOCIALIST FEDERATED SOVIET REPUBLIC	ZD4	GOLD COAST & TOGOLAND
HEI	LIECHTENSTEIN	UA9-9	ASIATIC RUSSIAN S. F. S. R.	ZD6	NYASALAND
HH	HAITI	UB5	UKRAINE	ZD7	SAINT HELENA
HI	DOMINICAN REPUBLIC	UC5	WHITE RUSSIAN S.S.R.	ZD8	ASCENSION ISLAND
HK	COLOMBIAN REPUBLIC	UD6	AZERBAIJAN	ZD9	TRISTAN DA CUNHA
HL1	KOREA	UF6	GEORGIA	ZE	SOUTHERN RHODESIA
HP	PANAMA	UG6	ARMENIA	ZK1	COOK ISLANDS
HR	HONDURAS	UH8	TURKOMAN	ZK2	NIUE
HS	SIAM	UI8	UZBEK	ZL	NEW ZEALAND
HV	VATICAN CITY	UJ8	TADZHIK	ZM	WESTERN SAMOA
HZ	SAUDI ARABIA	UL7	KAZAKH	ZP	PARAGUAY
I	ITALY	UMB	KIRGHIZ	ZS	UNION OF SOUTH AFRICA
K	UNITED STATES	UN1	KARELO-FINNISH REPUBLIC	3A2	MONACO
KA	JAPAN	UO5	MOLDAVIA	3V8	TUNISIA
KB6	BAKER, CANTON, ENDERBURY, HOWLAND & PHOENIX ISLANDS	UP	LITHUANIA	4X4	ISRAEL
KC4	ANTARCTICA	UQ	IATVIA	5A2	LIBYA
KC6	CAROLINE ISLANDS	UR	ESTONIA	9S4	SAARLAND
KG4	GUANTANAMO BAY, CUBA	VE	CANADA		





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W4ARA

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Hallicrafter S53A \$79.95; S38C	\$ 49.50
Hallicrafter S76 \$169.50; S40B	99.95
Hallicrafter S72L \$119.95; S72	109.95
Hallicrafter SX71 \$199.50; R46	19.95
Hallicrafter SX73 \$975.00; SX62	289.50
Hallicrafter HT20 xmitter	449.00
National SW54	49.95
National NC125	149.50
National NC183D	369.50
National HRO Sixty	483.50
Hammarlund SP600JX \$985.00; HQ129X	199.50
Johnson VFO kit (wired \$17.00)	42.75
Johnson mobile xmitter	99.50
Johnson Viking II and tubes	279.50
Gonset xmitter \$124.50; Gonset Triband	47.60
Morrow 3BR \$64.95; 2BR \$54.95; 1BR	44.95
Elmac A54H \$149.00; Elmac A54	139.00
Harvey-Wells Deluxe \$137.50; Senior	111.50
Lysco 600S \$189.95; Lysco 600	143.95

Some prices higher on west coast

Gonset, Stancor, Millen, National, Hallicrafters, RME, Bud, Vibroplex, Monkey, B & W, Johnson, RCA, Hy-Lite, Workshop, Elincor, Jensen, Eimac, UTC, Thordarson, Astatic, Turner, Bliley; I have everything for the amateur.

### Collins equipment stocked:

Collins 32V3 xmitter	775.00
Collins KW1 xmitter	3850.00
Collins 32V3 xmutter	775.00
Collins 35C2 filter	40.00

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# PREFIXES—BY COUNTRIES

The following countries listed in alphabetical order by country show international radio amateur prefixes. Characters in ( ) designate the continent and zone in which the country is located. Abbreviations are as follows: A—Asia, AF—Africa, E—Europe, NA—North America, O—Oceania, SA—South America.

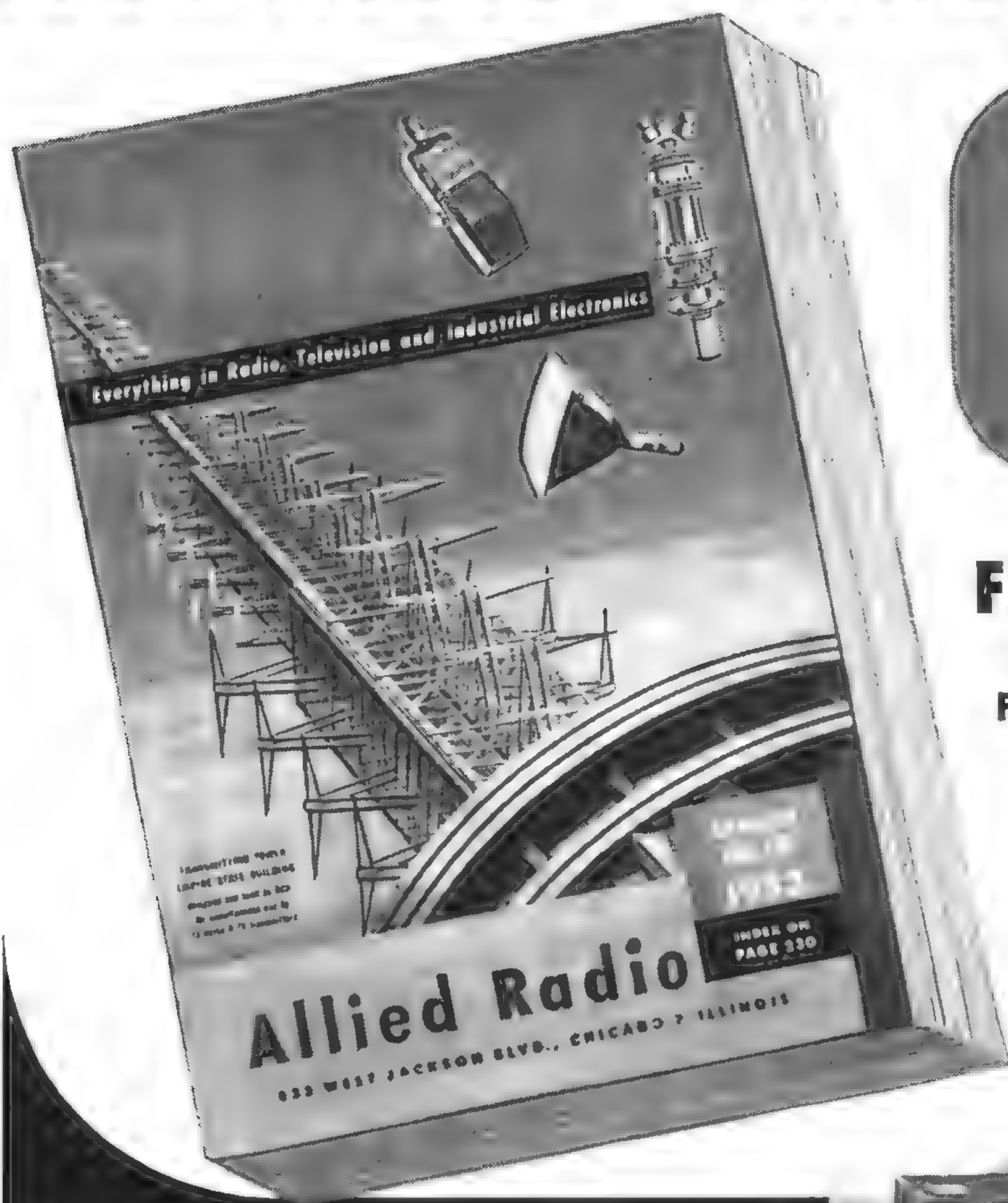
ADEN	(A-21)	VS9
AFGHANISTAN	(A-21)	YA
ALASKA	(NA-1)	KL7
ALBANIA	(E-15)	ZA
ALGERIA	(AF-33)	FA
ANDORRA	(E-14)	PX
ANGLO-EGYPTIAN SUDAN	(AF-34)	ST
ANGOLA	(AF-36)	CR6
ARGENTINA	(SA-13)	LU
ASCENSION ISLAND	(AF-36)	ZD8
AUSTRALIA	(O-29 & 30)	VK
AUSTRIA	(E-15)	OE
AZORES ISLANDS	(E-14)	CT2
BAHAMA ISLANDS	(NA-8)	VP7
BAHREIN ISLANDS	(AF-21)	MP4
BAKER ISLAND	(O-31)	KB6
BALEARIC ISLANDS	(E-14)	EA6
BARBADOS	(NA-8)	VP6
BASUTOLAND	(AF-38)	ZS4
BELGIAN CONGO	(AF-36)	OQ
BELGIUM	(E-14)	ON
BERMUDA ISLANDS	(NA-5)	VP9
BOLIVIA	(SA-10)	CP
BORNEO (Br. North)	(O-28)	VS4
BORNEO (Neth. Indies)	(O-28)	PK5
BRAZIL	(SA-11)	PY
BRITISH HONDURAS	(NA-7)	VP1
BRUNEI	(O-28)	VS5
BULGARIA	(E-20)	LZ
BURMA	(A-26)	XZ
CAMEROONS, British	(AF-36)	ZD2
CAMEROONS, French	(AF-36)	FE8
CANADA	(NA-1 to 5)	VE
CANAL ZONE	(NA-7)	KZ5
CANARY ISLANDS	(AF-33)	EA8
CANTON ISLAND	(O-31)	KB6
CAPE VERDE ISLANDS	(AF-35)	CR4
CAROLINE ISLANDS	(O-27)	KC6
CAYMAN ISLANDS	(NA-8)	VP5
CELEBES	(O-28)	PK6
CEYLON	(A-22)	VS7
CHAGOS ISLANDS	(AF-39)	VQ8
CHANNEL ISLANDS	(E-14)	GC
CHILE	(SA-12)	CE
CHINA	(A-23 & 24)	C
CHRISTMAS ISLAND	(O-31)	ZC3
COCOS ISLAND	(NA-7)	TI
COCOS ISLANDS	(O-29)	ZC2
COLOMBIA	(SA-9)	HK
COOK ISLANDS	(O-32)	ZK1
CORSICA	(E-15)	FC
COSTA RICA	(NA-7)	TI
CRETE	(E-20)	SV
CUBA	(NA-8)	CM, CO
CYPRUS	(A-20)	ZC4
CZECHOSLOVAKIA	(E-15)	OK
DENMARK	(E-14)	OZ
DODECANESE ISLANDS	(E-20)	SV5
DOMINICAN REPUBLIC	(NA-8)	HI
ECUADOR	(SA-10)	HC
EGYPT	(AF-34)	SU
ELLICE ISLANDS	(O-31)	VR1
ENGLAND	(E-14)	G
ERITREA	(AF-37)	M13
ETHIOPIA	(AF-37)	ET
FAEROES, The	(E-14)	OY
FALKLAND ISLANDS	(SA-13)	VP8
FANNING ISLAND	(O-31)	VR3
FIJI ISLANDS	(O-32)	VR2
FINLAND	(E-15)	OH
FRANCE	(E-14)	F
FRENCH-AUSTRIA	(E-15)	FKS
FR. EQUATORIAL AFRICA	(AF-36)	FQ8
FRENCH INDIA	(A-22)	FN
FRENCH INDO-CHINA	(A-26)	F18
FRENCH OCEANIA	(O-32)	FO8
FRENCH WEST AFRICA	(AF-35)	FF8
GAMBIA	(AF-35)	ZD3
GERMANY	(E-14)	DL
GIBRALTAR	(E-14)	ZB2
GILBERT ISLANDS	(O-31)	VR1
GOA (Portuguese India)	(A-22)	CR8
GOLD COAST	(AF-35)	ZD4
GREECE	(E-20)	SV
GREENLAND	(NA-40)	OX

GUADELOUPE	(NA-8)	FG8
GUAM	(O-27)	KG6
GUANTANAMO BAY	(NA-8)	KG4
GUATEMALA	(NA-7)	1G
GUIANA, BRITISH	(SA-9)	VP3
GUIANA, FRENCH	(SA-9)	FY7
GUIANA, NETHERLANDS	(SA-9)	PZ
GUINEA, PORTUGUESE	(AF-35)	CR5
HAITI	(NA-8)	HH
HAWAIIAN ISLANDS	(O-31)	KH6
HONDURAS	(NA-7)	HR
HONG KONG	(A-24)	VS6
HOWLAND ISLAND	(O-31)	KB6
HUNGARY	(E-15)	HA
ICELAND	(E-40)	TF
INDIA	(A-21)	VU
IRAN	(A-21)	EQ
IRAQ	(A-21)	YI
IRELAND	(E-14)	EI
ISLE OF MAN	(E-14)	GD
ISRAEL	(A-20)	4X4
ITALY	(E-15)	I
IWO JIMA ISLAND	(O-25)	KG6I
JAMAICA	(NA-8)	VP5
JAN MAYEN ISLAND	(E-40)	OY
JAPAN	(A-25)	KA
JARVIS ISLAND	(O-31)	KP6
JAVA	(O-28)	PK1, 2, 3
JOHNSTON ISLAND	(O-31)	KJ6
KENYA	(AF-37)	VQ4
KOREA	(A-25)	HL1
LABRADOR	(NA-2)	VO
LACCADIVE ISLANDS	(A-22)	VU4
LEBANON REPUBLIC	(A-20)	OD5
LEEWARD ISLANDS	(NA-8)	VP2
LIBERIA	(AF-35)	EL
LIBYA	(AF-34)	5A2
LIECHTENSTEIN	(E-14)	HE1
LITTLE AMERICA	(SA-13)	KC4
LUXEMBOURG	(E-14)	LX
MACAU	(A-24)	CR9
MADAGASCAR	(AF-39)	FB8
MADEIRA ISLANDS	(AF-33)	CT3
MALAYA	(A-28)	VS1, 2
MALDIVES ISLANDS	(A-22)	VS9
MALTA	(E-15)	ZB1
MARIANAS ISLANDS	(O-27)	KG6
MARSHALL ISLANDS	(O-31)	KX6
MARTINIQUE	(NA-8)	FM8
MAURITIUS	(AF-39)	VQ8
MEXICO	(NA-6)	XE
MIDWAY ISLAND	(O-31)	KM6
MIQUELON ISLAND	(NA-5)	FP8
MONACO	(E-14)	3A2
MOROCCO, French	(AF-33)	CN
MOROCCO, Spanish	(AF-33)	EA9
MOZAMBIQUE	(AF-37)	CR7
NETHERLANDS	(E-14)	PA
NETHERLAND W. INDIES	(SA-9)	PJ
NEW CALEDONIA	(O-32)	FK8
NEWFOUNDLAND	(NA-5)	VO
NEW GUINEA, Netherlands	(O-28)	PK6
NEW GUINEA, Territory of	(O-28)	VK9
NEW HEBRIDES	(O-32)	FU8, YJ
NEW ZEALAND	(O-32)	ZL
NICARAGUA	(NA-7)	YN
NIGERIA	(AF-35)	ZD2
NIUE	(O-32)	ZK2
NORTHERN IRELAND	(E-14)	GI
NORWAY	(E-14)	LA
NYASALAND	(AF-37)	ZD6
OKINAWA	(A-25)	KR6
OMAN	(A-21)	MP4
PAKISTAN	(A-21, 22)	AP
PANAMA	(NA-7)	HP
PAPUA TERRITORY	(O-28)	VK9
PARAGUAY	(SA-11)	ZP
PERU	(SA-10)	OA
PHILIPPINE ISLANDS	(O-27)	DU
PITCAIRN ISLAND	(O-32)	VR6
POLAND	(E-15)	SP
PORTUGAL	(E-14)	CT1
PUERTO RICO	(NA-8)	KP4
REUNION ISLAND	(AF-39)	FR8

RHODESIA, NORTHERN	(AF-36)	VQ2
RHODESIA, SOUTHERN	(AF-38)	ZE
ROUMANIA	(E-20)	YO
RYUKYU ISLANDS	(A25)	KR6
SAARLAND	(E-14)	9S4
SAINT HELENA	(AF-36)	ZD7
SAIPAN ISLAND	(O-27)	KG6S
SALVADOR	(NA-7)	YS
SAMOA (U.S.)	(O-32)	KS6
SAMOA (Western)	(O-32)	ZM
SARAWAK	(O-28)	VS?
SAUDI ARABIA	(A-21)	HZ
SCOTLAND	(E-14)	GM
SEYCHELLES	(AF-39)	VQ9
SIAM	(A-26)	HS
SIERRA LEONE	(AF-35)	ZD1
SIKKIM	(A-22)	AC3
SOCOTRA ISLAND	(AF-37)	VS9
SOLOMON ISLANDS	(O-28)	VR4
SOMALILAND, British	(AF-37)	VQ6
SOMALILAND, French	(AF-37)	FL8
SOMALILAND, Italian	(AF-37)	I5
SOUTH GEORGIA	(SA-13)	VP8
SOUTH ORKNEY ISLANDS	(SA-13)	VP8
SOUTH SANDWICH ISLANDS	(SA-13)	VP8
SOUTH SHETLAND ISLANDS	(SA-13)	VP8
SOUTHWEST AFRICA	(AF-38)	ZS3
SOVIET UNION:		
EUROPEAN RUSSIAN SOCIALIST		
FEDERATED SOVIET REP.	(E-16)	UA1, 3, 4, 6
ASIATIC RUSSIAN S.F.S.R.	(A-18, 19)	UA9, φ
UKRAINE	(E-16)	UB5
WHITE RUSSIAN S.S.R.	(E-16)	UC
AZERBAIJAN	(A-21)	UD6
GEORGIA	(A-21)	UF6
ARMENIA	(A-21)	UG6
TURKOMAN	(A-17)	UH8
UZBEK	(A-17)	UI8
TADZHIK	(A-17)	UI8
KAZAKH	(A-17)	UL7
KIRGHIZ	(A-17)	UM8
KARELO-FINNISH REP.	(E-16)	UN1
MOLDAVIA	(E-16)	UO5
LITHUANIA	(E-15)	UP
LATVIA	(E-15)	UQ
ESTONIA	(E-15)	UR
SPAIN	(E-14)	EA
SUMATRA	(O-28)	PK4
SWAN ISLAND	(NA-7)	KS4
SWEDEN	(E-14)	SM
SWITZERLAND	(E-14)	HB
SYRIA	(A-20)	YK
TANGANYIKA	(AF-37)	VQ3
TANGIER ZONE	(AF-33)	CN2
TANNU TUVA	(A-23)	TT
TIBET	(A-23)	AC4
TIMOR, Portuguese	(O-28)	CR10
TINIAN ISLAND	(O-27)	KG6T
TOGOLAND, French	(AF-35)	FD8
TONGA (Friendly) ISLANDS	(O-32)	VR5
TRANSJORDAN	(A-20)	ZC1
TRIESTE	(E-15)	AG2 & MF2
TRINIDAD & TOBAGO	(SA-9)	VP4
TRISTAN da CUNHA & COUGH ISLAND	(AF-38)	ZD9
TUNISIA	(AF-33)	3V8
TURKEY	(A-20)	TA
TURKS & CAICOS ISLANDS	(NA-8)	VP5
UGANDA	(AF-37)	VQ5
UNION OF SOUTH AFRICA	(AF-38)	ZS
UNITED STATES of AMERICA	(NA-3, 4, 5)	W, K
URUGUAY	(SA-13)	CX
VATICAN CITY	(E-15)	HV
VENEZUELA	(SA-9)	YV
VIRGIN ISLANDS	(NA-8)	KV4
WAKE ISLAND	(O-31)	KW6
WALES	(E-14)	GW
WINDWARD ISLANDS	(NA-8)	VP2
YUGOSLAVIA	(E-15)	YT, YU
ZANZIBAR	(AF-37)	VQ1



# NEW! 1953 ALLIED CATALOG



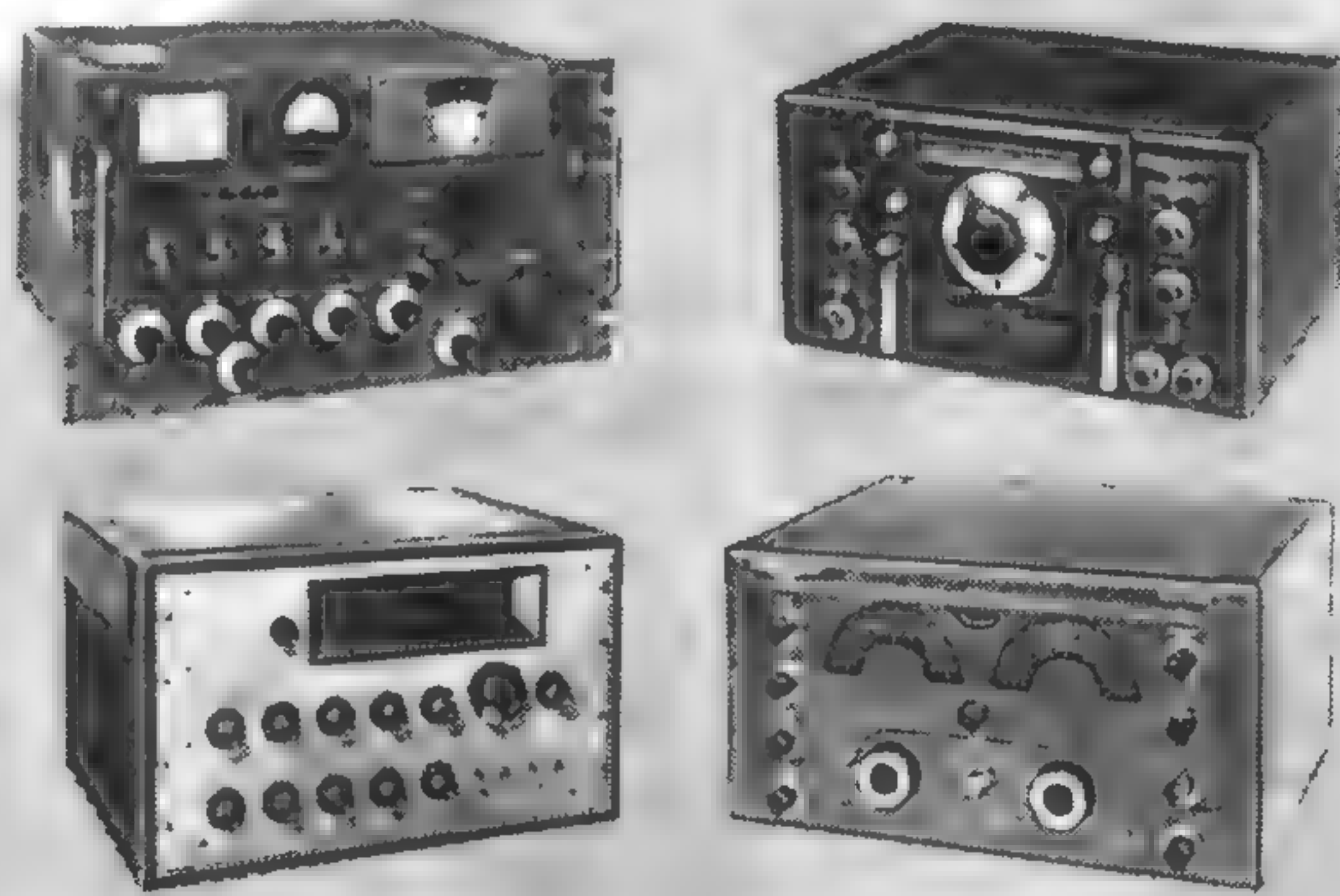
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STATION GEAR**

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# POSTAL INFORMATION

The following table shows the postal rates for QSL cards, first class letters and air mail to the United States Possessions and foreign countries. There is on sale at Government Post Offices, an air-letter sheet which folds into the form of an envelope, with printed postage stamp and air mail markings. Air-letter sheets are sold for ten cents each and may be sent to all foreign countries. No enclosures are permitted. Air-letter sheets may not be registered. The first class rates show the rate for the first ounce. Add three cents each for each additional ounce or fraction. The air mail rates are for each half ounce except where indicated. Effective January 1, 1952 the postal rate for QSL cards in the U. S. and possessions is two cents.

COUNTRY	QSL cards	First class	Air mail	COUNTRY	QSL cards	First class	Air mail	COUNTRY	QSL cards	First class	Air mail
ADEN	.03	.05	.25	FRENCH OCEANIA	.03	.05	.25	NORWAY	.03	.05	.15
AFGHANISTAN	.03	.05	.25	FRENCH SOMALILAND	.03	.05	.25	NYASALAND	.03	.05	.25
ALASKA	.02	.03	.06*	FRENCH SUDAN	.03	.05	.25				
ALBANIA	.03	.05	.15	FRENCH TOGOLAND	.03	.05	.25	OKINAWA	.03	.05	.25
ALGERIA	.03	.05	.15					PAKISTAN	.03	.05	.25
ANDORRA	.02	.30	.15	GAMBIA	.03	.05	.25	PANAMA	.02	.03	.10
ANGLO-EGYPTIAN SUDAN	.03	.05	.25	GERMANY	.03	.05	.15	PAPUA	.03	.05	.25
ANGOLA	.03	.05	.25	GIBRALTAR	.03	.05	.15	PARAGUAY	.02	.03	.10
ANGUILLA	.03	.05	.10	GILBERT & ELLICE IS.	.03	.05	.25	PERU	.02	.03	.10
ANTIGUA	.03	.05	.10	GOLD COAST COLONY	.03	.05	.25	PHILIPPINE IS.	.02	.03	.25
ARGENTINA	.02	.03	.10	GREECE	.03	.05	.15	POLAND	.03	.05	.15
ARUBA	.03	.05	.10	GRENADA, BWI	.03	.05	.10	PORTUGAL	.03	.05	.15
AUSTRALIA	.03	.05	.25	GRENADINES, BWI	.03	.05	.10	PORT. EAST AFRICA	.03	.05	.25
AUSTRIA	.03	.05	.15	GUADELOUPE	.03	.05	.10	PORTUGUESE GUINEA	.03	.05	.25
AZORES	.03	.05	.15	GUAM	.02	.03	.06*	PORTUGUESE INDIA	.03	.05	.25
				GUATEMALA	.02	.03	.10	PORTUGUESE TIMOR	.03	.05	.25
BAHAMAS	.03	.05	.10					PORTUGUESE W. AFRICA	.03	.05	.25
BAHREIN ISLANDS	.03	.05	.25	HAITI	.02	.03	.10	PUERTO RICO	.02	.03	.06*
BALEARIC ISLANDS	.02	.03	.15	HAWAII	.02	.03	.06*				
BALUCHISTAN	.03	.05	.25	HONDURAS	.02	.03	.10	REDONDA, BWI	.03	.05	.10
BARBADOS	.03	.05	.10	HONG KONG	.03	.05	.25	REUNION ISLAND	.03	.05	.25
BARBUDA	.03	.05	.10	HUNGARY	.03	.05	.15	RIO DE ORO	.02	.03	.25
BECHUANALAND	.03	.05	.25					ROMANIA	.03	.05	.15
BELGIAN CONGO	.03	.05	.25	ICELAND	.03	.05	.15	RYUKYU ISLANDS	.03	.05	.25
BELGIUM	.03	.05	.15	INDIA	.03	.05	.25				
BERMUDA	.03	.05	.10	INDONESIA	.03	.05	.25	ST CHRISTOPHER, BWI	.03	.05	.10
BOLIVIA	.02	.03	.10	IRAN	.03	.05	.25	ST HELENA	.03	.05	.25
BRAZIL	.02	.03	.10	IRAQ	.03	.05	.25	ST KITS, BWI	.03	.05	.10
BRITISH CAMEROONS	.03	.05	.25	ITALY	.03	.05	.15	ST LUCIA, BWI	.03	.05	.10
BRITISH GUIANA	.03	.05	.10	ITALIAN SOMALILAND	.03	.05	.25	ST PIERRE & MIQUELON	.03	.05	.08*
BRITISH HONDURAS	.03	.05	.10	IVORY COAST	.03	.05	.25	ST VINCENT, BWI	.03	.05	.10
BRITISH SOMALILAND	.03	.05	.25					SALVADOR	.02	.03	.10
BR. VIRGIN ISLANDS	.03	.05	.10	JAMAICA	.03	.05	.10	SAMOA (Br.)	.03	.05	.25
BRUNEI	.03	.05	.25	JAPAN	.03	.05	.25	SAN MARINO	.03	.05	.15
BULGARIA	.03	.05	.15	JORDAN	.03	.05	.25	SARAWAK	.03	.05	.25
BURMA	.03	.05	.25					SAUDI ARABIA	.03	.05	.25
				KENYA & UGANDA	.03	.05	.25	SCOTLAND	.03	.05	.15
CANADA	.02	.03	.06*	KOREA	.03	.05	.25	SENEGAL	.03	.05	.25
CANAL ZONE	.02	.03	.06*					SIAM	.03	.05	.25
CANARY ISLANDS	.02	.03	.25	LABUAN	.03	.05	.25	SIERRA LEONE	.03	.05	.25
CANTON ISLAND	.02	.03	.06*	LATVIA	.03	.05	.15	SOLOMON ISLANDS	.03	.05	.25
CAPE VERDE ISLANDS	.03	.05	.25	LEBANON	.03	.05	.25	SOMALIA	.03	.05	.25
CEYLON	.03	.05	.25	LIBERIA	.03	.05	.25	SOUTHERN RHODESIA	.03	.05	.25
CHILE	.02	.03	.10	LIBYA	.03	.05	.15	SOUTHWEST AFRICA	.03	.05	.25
CHINA	.03	.05	.25	LIECHENSTEIN	.03	.05	.15	SPAIN	.02	.03	.15
COLOMBIA	.02	.03	.10	LITHUANIA	.03	.05	.15	SPANISH GUINEA	.03	.05	.25
COOK ISLANDS	.03	.05	.25	LUXEMBOURG	.03	.05	.15	STRAIT SETTLEMENTS	.03	.05	.25
CORSICA	.03	.05	.15					SURINAM	.03	.05	.10
COSTA RICA	.02	.03	.10	MACAO	.03	.05	.25	SWEDEN	.03	.05	.15
CUBA	.02	.03	.08	MADAGASCAR	.03	.05	.25	SWITZERLAND	.03	.05	.15
CURACAO	.03	.05	.10	MADEIRA ISLANDS	.03	.05	.15	SYRIA	.03	.05	.25
CYPRUS	.03	.05	.25	MALAY STATES	.03	.05	.25				
CYRENAICA	.03	.05	.15	MALTA	.03	.05	.15	TAIWAN (Formosa)	.03	.05	.25
CZECHOSLOVAKIA	.03	.05	.15	MANCHURIA	.03	.05	.25	TANGANYIKA	.03	.05	.25
				MARTINIQUE	.03	.05	.10	TIBET	.03	.05	.25
DAHOMEY	.03	.05	.25	MAURITANIA	.03	.05	.25	TONGA ISLANDS	.03	.05	.25
DENMARK	.03	.05	.15	MAURITIUS	.03	.05	.25	TRIESTE	.03	.05	.15
DODECANESE IS.	.03	.05	.15	MEXICO	.02	.03	.06*	TRINIDAD	.03	.05	.10
DOMINICA	.03	.05	.10	MIDWAY ISLAND	.02	.03	.06*	TRIPOLITANIA	.03	.05	.15
DOMINICAN REPUBLIC	.02	.03	.10	MONACO	.03	.05	.15	TRISTAN DA CUNHA	.03	.05	.25
				MONTserrat, BWI	.03	.05	.10	TUNISIA	.03	.05	.15
ECUADOR	.02	.03	.10	MOROCCO, (Br. & Fr.)	.03	.05	.15	TURKEY	.03	.05	.15
EGYPT	.03	.05	.15	MOROCCO, (Spain)	.02	.03	.15	TURKS ISLAND	.03	.05	.10
EIRE (Ireland)	.03	.05	.15	MOZAMBIQUE	.03	.05	.25				
ENGLAND	.03	.05	.15					UGANDA	.03	.05	.25
ERITREA	.03	.05	.25	NAURU ISLAND	.03	.05	.25	UNION OF SOUTH AFRICA	.03	.05	.25
ESTONIA	.03	.05	.15	NETHERLANDS	.03	.05	.15	URUGUAY	.02	.03	.10
ETHIOPIA	.03	.05	.25	NETHERLANDS INDIES	.03	.05	.25	U.S.S.R.	.03	.05	.15
				NEVIS	.03	.05	.10	U. S. VIRGIN IS.	.02	.03	.06*
FALKLAND ISLANDS	.03	.05	.10	NEW CALEDONIA	.03	.05	.25				
FAEROES ISLANDS	.03	.05	.15	NEWFOUNDLAND	.02	.03	.06*	VATICAN CITY	.03	.05	.15
FIJI ISLANDS	.03	.05	.25	NEW GUINEA	.03	.05	.25	VENEZUELA	.02	.03	.10
FINLAND	.03	.05	.15	NEW HEBRIDES	.03	.05	.25				
FRANCE	.03	.05	.15	NEW ZEALAND	.03	.05	.25	WAKE ISLAND	.02	.03	.06*
FRENCH CAMEROONS	.03	.05	.25	NICARAGUA	.02	.03	.10				
FRENCH EQ. AFRICA	.03	.05	.25	NIGER	.03	.05	.25	YEMEN	.03	.05	.25
FRENCH GUIANA	.03	.05	.10	NIGERIA	.03	.05	.25	YUGOSLAVIA	.03	.05	.15
FRENCH GUINEA	.03	.05	.25	NORTH BORNEO	.03	.05	.25				
FRENCH INDO-CHINA	.03	.05	.25	NORTHERN IRELAND	.03	.05	.15	ZANZIBAR	.03	.05	.25
FRENCH INDIA	.03	.05	.25	NORTHERN RHODESIA	.03	.05	.25				

\* rate per ounce.



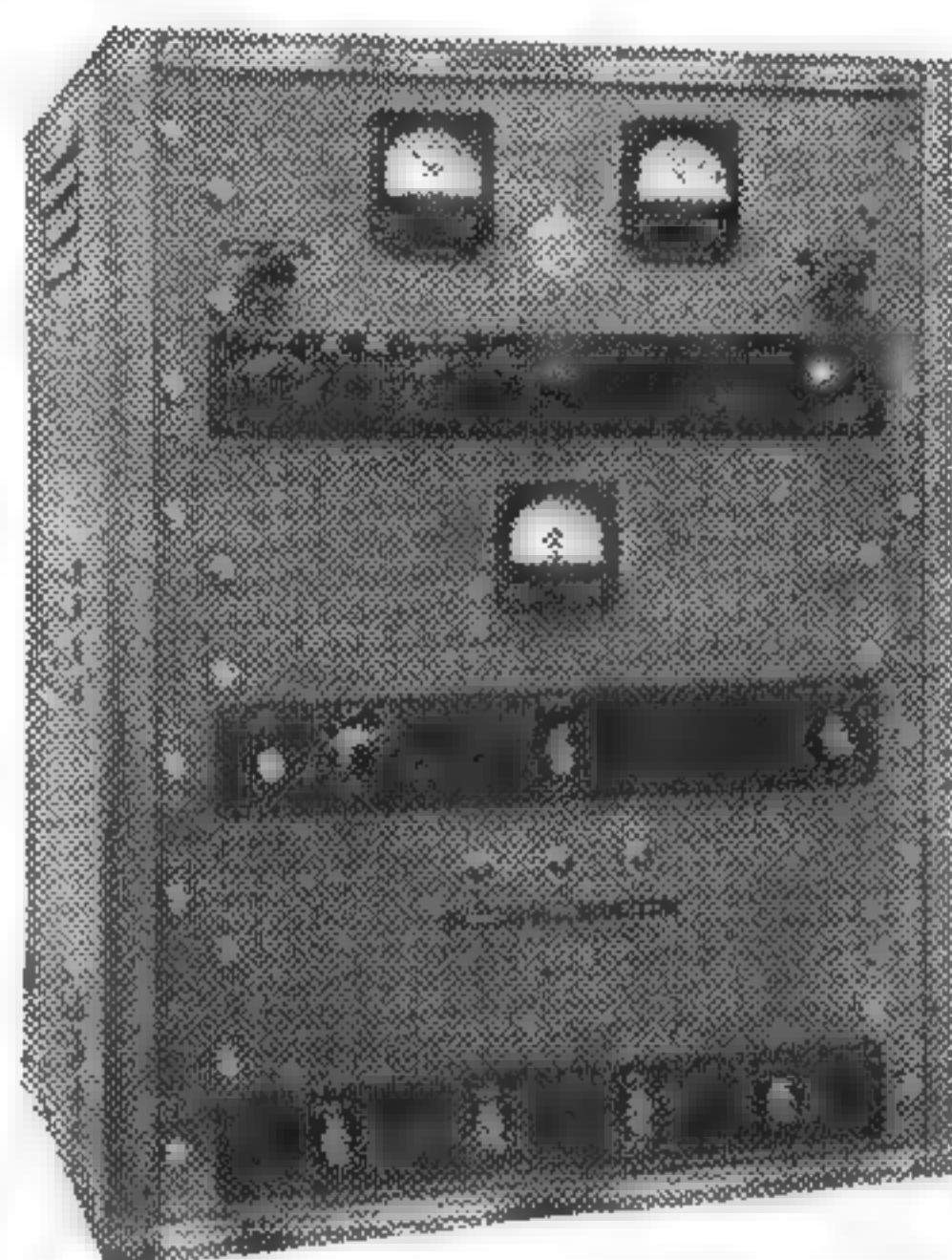
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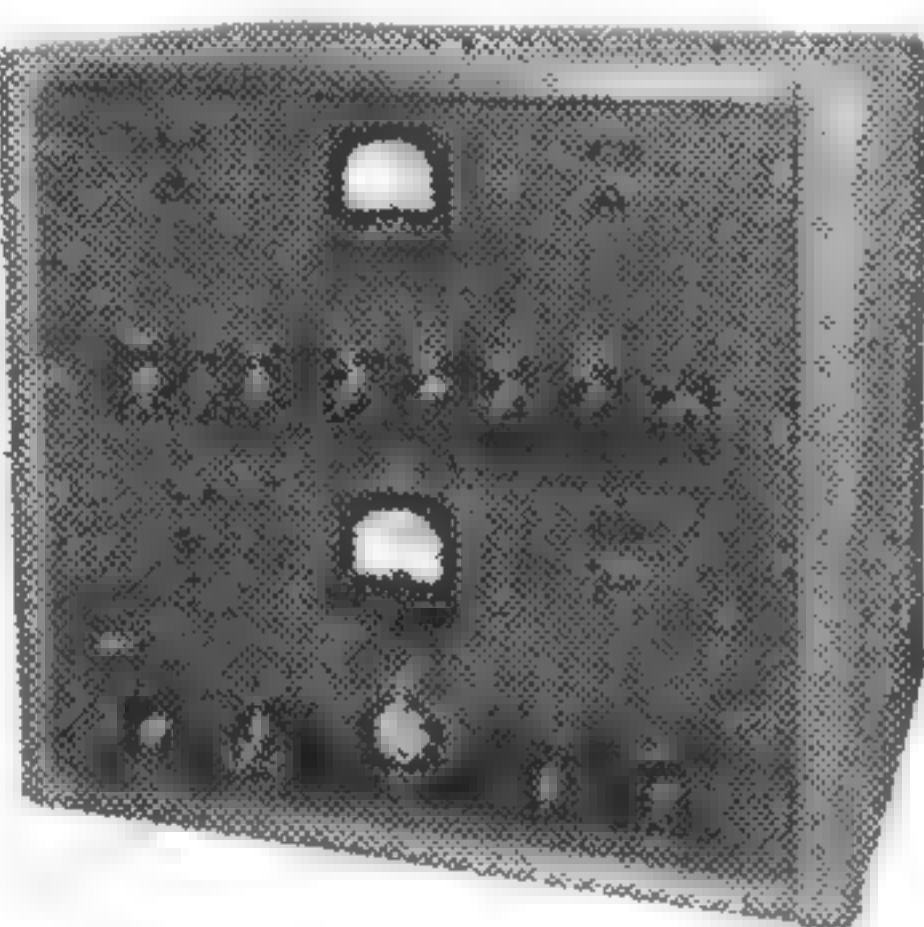
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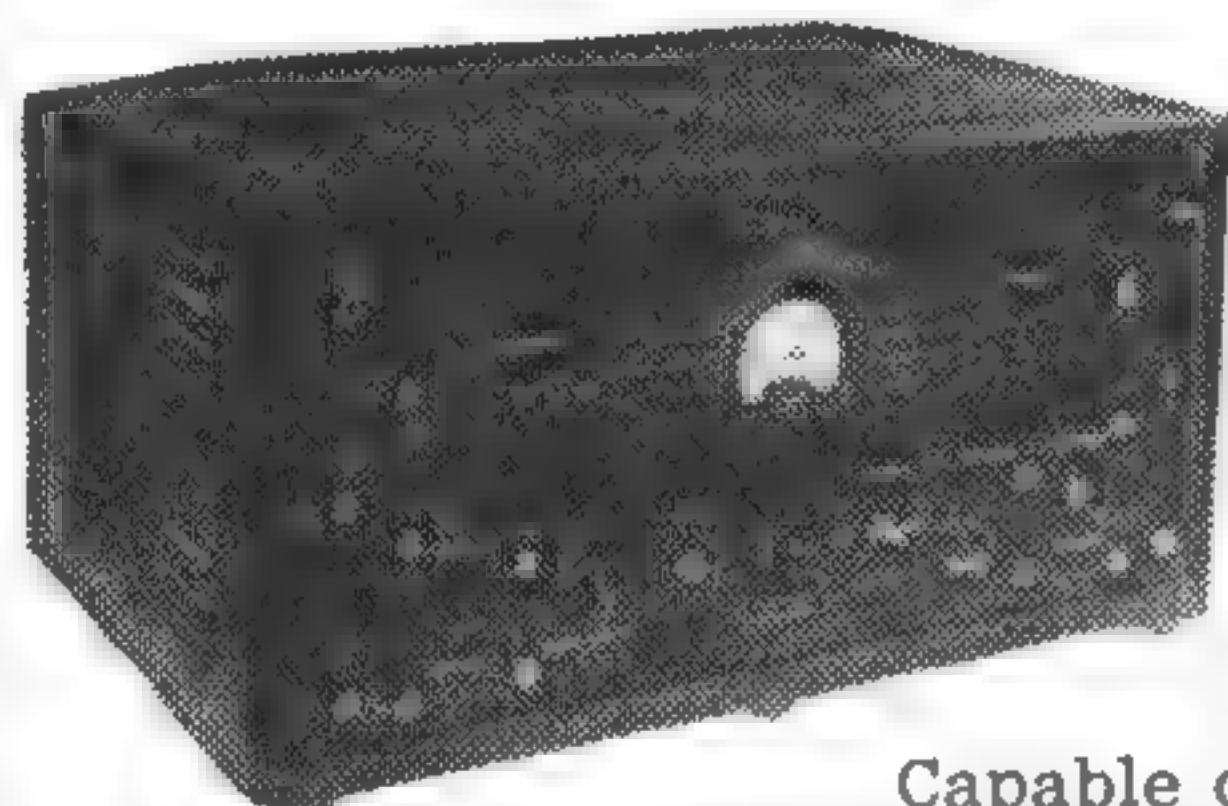
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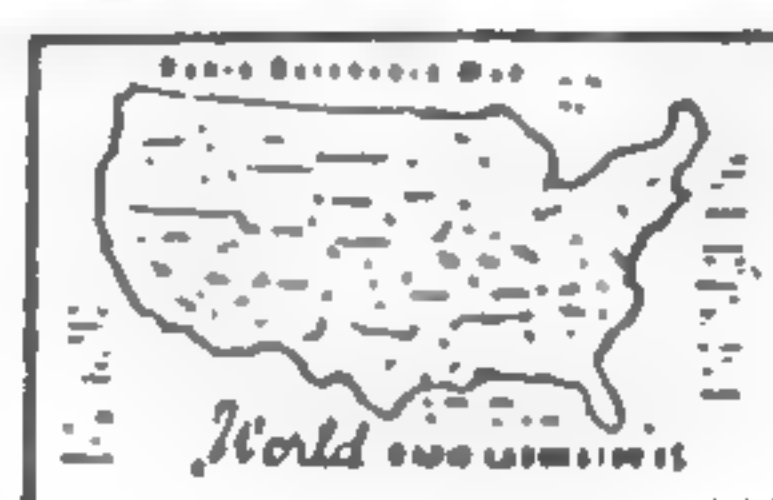


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[illegible]

To find the great circle bearing to any point in the world from the center of the United States, draw a straight line from the star and note the reading in degrees on the outer scale. The bar scale at the bottom of the chart can be used to determine the distance in statute miles. For bearings to the nearest degree reference is invited to the table on the opposite Page. The outlines of this chart were prepared by the U.S. Coast and Geodetic Survey.



# GREAT CIRCLE BEARINGS

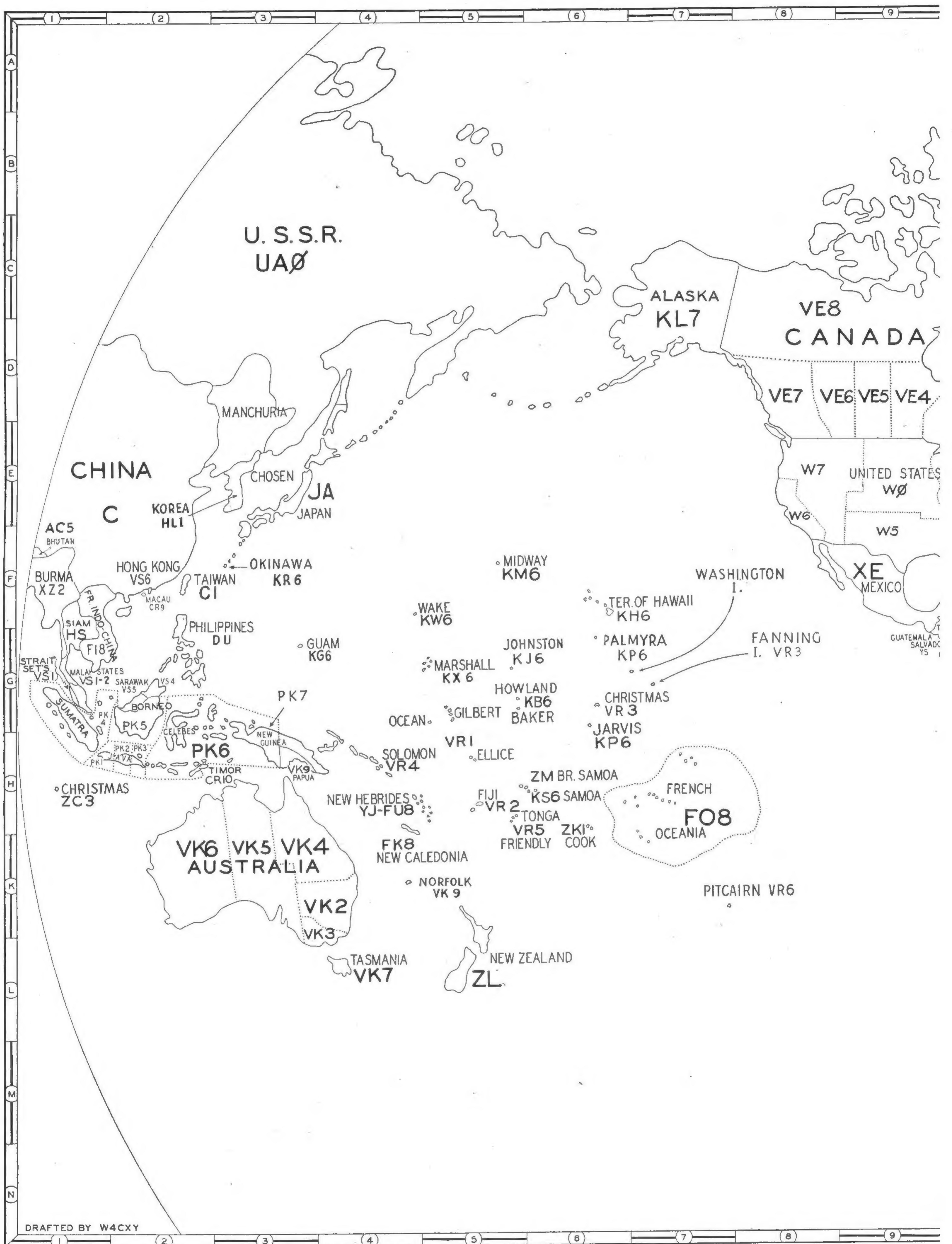
## FROM THE CENTER OF THE UNITED STATES

The table below shows the great circle bearing in degrees from the exact center of the United States to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U. S. Coast and Geodetic Survey.

Prefix	Country	Bearing	Prefix	Country	Bearing	Prefix	Country	Bearing
AG3	SIKKIM	352	KL7	ALASKA, Anchorage	322	VK3	Melbourne	250
AC4	TIBET, Lhasa	350		Fairbanks	329	VK4	Brisbane	257
AG2	TRIESTE	41	KM6	MIDWAY ISLAND	288	VK5	Darwin	287
AP	PAKISTAN, Karachi	13	KP4	PUERTO RICO	117	VK6	Perth	274
AR8	LEBANON, Beyrouth	36	KP6	PALMYRA ISLAND	256	VK7	TASMANIA, Hobart	243
C	CHINA, Chungking	335	KR6	OKINAWA ISLAND	318	VK9	NORFOLK ISLAND	248
	Pekin	333	KS4	SWAN ISLAND	144		PAPUA TERRITORY, Port Moresby	277
	Shanghai	325	KS6	SAMOA	248	VO	NEWFOUNDLAND, St. John's	59
CE	CHILE, Santiago	156	KV4	VIRGIN ISLANDS	115	VPI	BRITISH HONDURAS	152
CM	CUBA, Havana	135	KW6	WAKE ISLAND	287	VP2	LEEWARD and WINDWARD ISLANDS	112
CN8	FRENCH MOROCCO, Casablanca	62	KX6	MARSHALL ISLANDS	276	VP3	BRITISH GUIANA, Georgetown	120
CP	BOLIVIA, La Paz	146	KZ5	CANAL ZONE	145	VP4	TRINIDAD	120
CR4	CAPE VERDE ISLANDS	87	LA	NORWAY, Oslo	29	VP5	JAMAICA	127
CR5	PORTUGUESE GUINEA	84	LI	LIBYA, Tripoli	51	VP6	BARBADOS ISLANDS	112
CR6	ANGOLA, Nova Lisboa	83	LU	ARGENTINA, Buenos Aires	147	VP7	BAHAMAS ISLANDS	121
CR7	MOZAMBIQUE, Lourenco Marques	85	LX	LUXEMBOURG	42	VP8	FALKLAND ISLANDS	156
	Mozambique	65	LZ	BULGARIA, Sofia	38		South Georgia Island	147
CR8	GOA	7	MB9	AUSTRIA, Vienna	38		South Orkney Islands	155
CR9	MACAU	327	MD1	CIRENAICA	46	VP9	BERMUDA	94
CR10	TIMOR ISLAND	295	MD2	TRIPOLITANIA	51	VQ1	ZANZIBAR	57
CT1	PORTUGAL, Lisbon	59	MD3	ERITREA, Asmara	44	VQ2	NORTHERN RHODESIA, Lusaka	77
CT2	AZORES ISLANDS	67	MD4	BRITISH SOMALILAND	40	VQ3	TANGANYIKA, Dar-Es-Salaam	59
CT3	MADERIA ISLANDS	68	MD5	SUEZ CANAL ZONE	40	VQ4	KENYA, Nairobi	56
CX	URUGUAY, Montevideo	145	MD6	IRAQ, Baghdad	30	VQ5	UGANDA	59
DL	GERMANY, Berlin	37	MD7	CYPRUS	37	VQ6	BRITISH SOMALILAND	40
DU	PHILIPPINE ISLANDS, Manila	316	MF2	TRIESTE (British)	41	VQ8	CHAGOS ISLANDS	14
EA	SPAIN, Madrid	54	MI3	ERITREA, Asmara	44		Mauritius	51
EA6	BALEARIC ISLANDS	52	MP4	BAHREIN ISLANDS and OMAN	28	VQ9	SEYCHELLES	38
EA8	CANARY ISLANDS	71	OA	PERU, Lima	153	VR1	GILBERT ISLANDS	267
EA9	SPANISH MOROCCO	59	OH	FINLAND, Helsinki	25	VR2	FIJI ISLANDS	251
EI	IRELAND, Dublin	43	OE	AUSTRIA, Vienna	38	VR3	FANNING ISLAND	252
EK1	TANGIER ZONE	60	OK	CZECHOSLOVAKIA, Prague	38	VR4	SOLOMON ISLANDS	270
EL	LIBERIA, Monrovia	86	ON	BELGIUM, Brussels	41	VR5	TONGA ISLANDS	244
EP	IRAN, Tehran	23	OQ5	BELGIAN CONGO, Elisabethville	74	VR6	PITCAIRN ISLAND	208
ET	ETHIOPIA, Addis Ababa	48		Leopoldville	76	VS	MALAYA, Singapore	326
F	FRANCE, Paris	44	OX	GREENLAND, Godthaab	34	VS4	BRITISH NORTH BORNEO	314
FA	ALGERIA, Algiers	54	OY	FAEROES ISLANDS	34	VS5	BRUNEI and SARAWAK	316
FB8	MADAGASCAR, Antsirana	53	OZ	DENMARK, Copenhagen	34	VS6	HONG KONG	326
	Tananarive	63	PA	NETHERLANDS, Amsterdam	40	VS7	CEYLON	1
FC	CORSICA	46	PK	JAVA, Batavia	317	VS9	ADEN, Aden	39
FD8	TOGOLAND	77	PK4	SUMATRA	328	VU	INDIA, Bombay	8
FE8	FRENCH CAMEROONS	72	PK5	BORNEO	314		Calcutta	351
FF8	FRENCH WEST AFRICA, Dakar	84	PK6	CELEBES ISLAND	305		Delhi	3
FG8	QUADELOUPE	114	PK7	NETHERLAND NEW GUINEA	290	VU4	LACCADIVE ISLANDS	9
FIB	FRENCH INDO CHINA, Saigon	328	PX	ANDORRA	50	VU5	ANDAMAN ISLANDS	345
FK8	NEW CALEDONIA, Noumea	254	PY	BRAZIL, Natal	112	XE	MEXICO, Mexico City	178
FL8	FRENCH SOMALILAND, Djibouti	42		Rio de Janeiro	129	XZ	BURMA, Rangoon	342
FM8	MARTINIQUE	117	PZ	SURINAM, (Netherland Guiana)	121	YA	AFGHANISTAN, Kandahar	13
F08	FRENCH OCEANIA, Tahiti	229	SM	SWEDEN, Stockholm	29	YI	IRAQ, Baghdad	30
FP8	MIQUELON and ST. PIERRE IS.	64	SP	POLAND, Warsaw	33	YJ	NEW HEBRIDES	260
FQ8	FRENCH EQUATORIAL AFRICA	65	ST	ANGLO-EGYPTIAN SUDAN, Khartoum	49	YK	SYRIA	34
FR8	REUNION ISLAND	55	SU	EGYPT, Cairo	41	YN	NICARAGUA	150
FT4	TUNISIA, Tunis	50	SV	GREECE, Athens	41	YO	ROMANIA, Bucharest	36
FU8	NEW HEBRIDES	259	SV5	DODECANESE ISLANDS	40	YS	SALVADOR, San Salvador	156
FY8	FRENCH GUIANA, Cayenne	117	TA	TURKEY, Ankara	35	YT	YUGOSLAVIA, Belgrade	39
G	ENGLAND, London	43	TF	ICELAND, Reykjavik	35	YV	VENEZUELA, Caracas	126
GC	CHANNEL ISLANDS	45	TG	GUATEMALA, Guatemala City	161	ZA	ALBANIA, Tirana	41
GD	ISLE OF MAN	41	TI	COSTA RICA	150	ZB1	MALTA	48
GI	NORTHERN IRELAND, Belfast	42	TR	LIBYA, Tripoli	51	ZB2	GIBRALTAR	58
GM	SCOTLAND, Glasgow	40	TT	TANNU TUVA, Kyzyl Khot	351	ZC1	TRANSJORDAN	36
GW	WALES	43	U	SOVIET UNION, Moscow	23	ZC2	COCOS ISLANDS	327
HA	HUNGARY, Budapest	37	UB5	UKRAINE	30	ZC3	CHRISTMAS ISLAND	315
HB	SWITZERLAND, Bern	43	UC5	WHITE RUSSIA	25	ZC4	CYPRUS	37
HC	ECUADOR, Quito	148	UD6	AZERBAIJAN	23	ZD1	SIERRA LEONE, Freetown	81
HC8	GALAPAGOS ISLANDS	167	UF6	GEORGIA	28	ZD2	NIGERIA, Lagos	76
HE1	LEICHTENSTEIN	43	UG6	ARMENIA	26	ZD3	GAMBIA	84
HH	HAITI, Port-au-Prince	124	UH8	TURKOMAN	19	ZD4	GOLD COAST, Accra	80
HI	DOMINICAN REPUBLIC	122	UI8	UZBEK	12	ZD6	NYASALAND	69
HK	COLOMBIA, Bogota	140	UJ8	TADZHIK	7	ZD7	ST. HELENA	100
HLI	KOREA, Seoul	324	UL7	KAZAKH	10	ZD8	ASENCION ISLAND	99
HP	PANAMA	145	UM8	KIRGHIZ	5	ZD9	TRISTAN da CUNHA	122
HR	HONDURAS	152	UNI	KARELO-FINNISH REPUBLIC	20	ZE	SOUTHERN RHODESIA, Salisbury	77
HS	SIAM, Bangkok	336	UO5	MOLDAVIA	32	ZK1	COOK ISLANDS	234
HV	VATICAN CITY	45	UP	LITHUANIA	30	ZK2	NIUE	242
HZ	SAUDI ARABIA	34	UQ	LATVIA	29	ZL1	NEW ZEALAND, Auckland	238
I	ITALY, Rome	45	UR	ESTONIA	27	ZL2	Wellington	234
IS	SARDINIA	48	VE1	CANADA, Halifax	68	ZL3	Christchurch	233
JA	JAPAN, Tokyo	315	VE2	Montreal	64	ZL4	Dunedin	231
KB6	BAKER ISLAND	262	VE3	Toronto	77	ZM6	SAMOA (British)	248
KG6	CAROLINE ISLANDS	260	VE4	Winnipeg	10	ZP	PARAGUAY, Asuncion	141
KG4	GUANTANAMO BAY, Cuba	126	VE5	Saskatoon	339	ZS	UNION OF SOUTH AFRICA, Capetown	104
KG6	GUAM	297	VE6	Edmonton	330		Durban	91
KG61	IWO JIMA ISLAND	317	VE7	Vancouver	308		Johannesburg	89
KG6S	SAIPAN ISLAND	297	VE8	Fort Nelson	333	ZS3	SOUTH WEST AFRICA, Windhoek	92
KG6T	HAWAIIAN ISLAND	297	VK1	HEARD ISLAND	163	ZS7	SWAZILAND	87
KH6	HAWAIIAN ISLANDS, Honolulu	267	VK2	AUSTRALIA, Sydney	252	ZS8	BASUTOLAND	93
KJ6	JOHNSTON ISLAND	270				ZS9	BECHUANALAND	87



# WORLD MAP SHOWING



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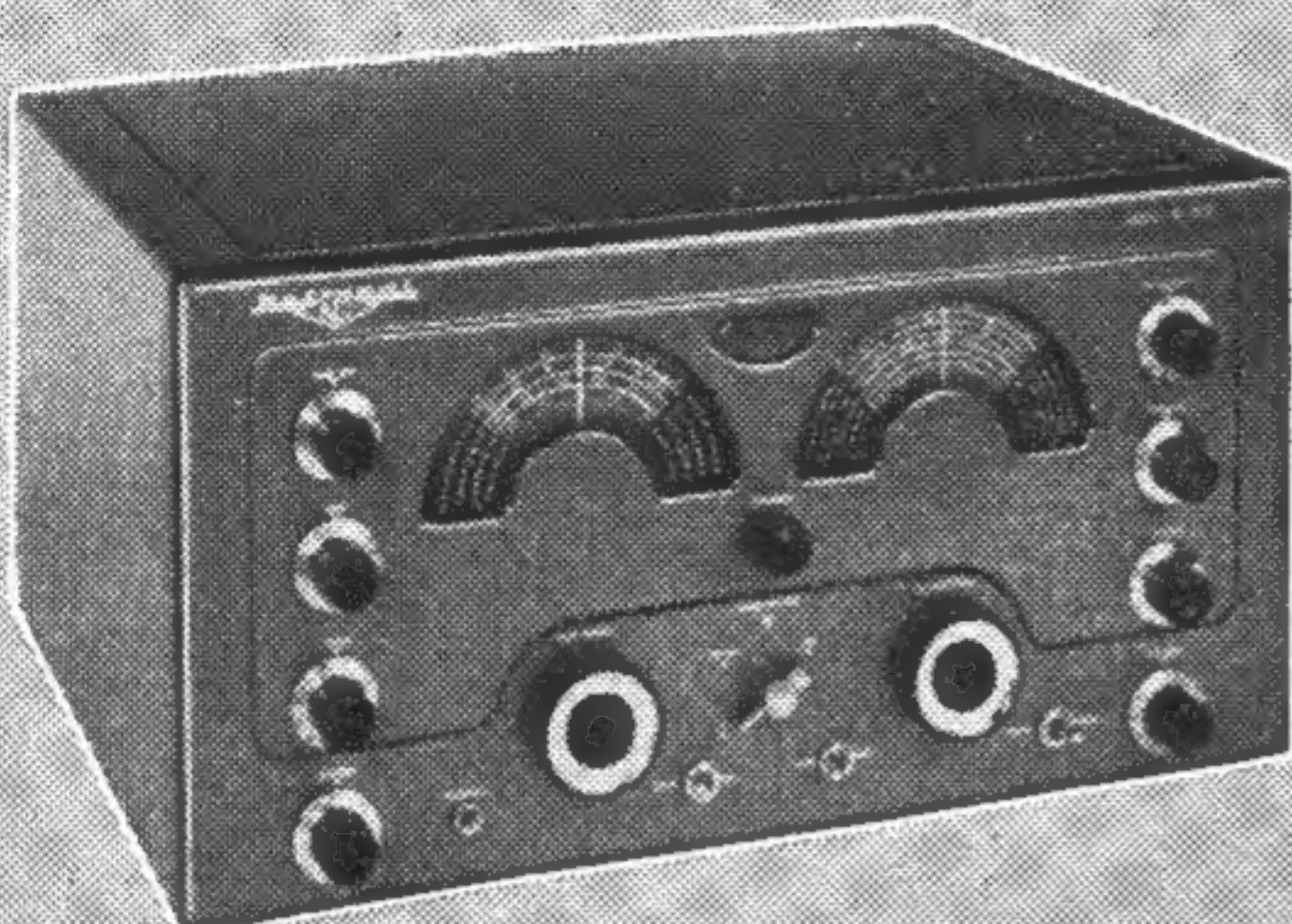


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